



REGISTERED AS A NEWSPAPER

TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,"
CANNON, LONDON " (2 Words)
No. 2481.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.
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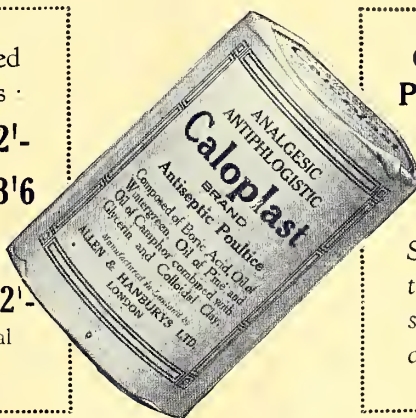
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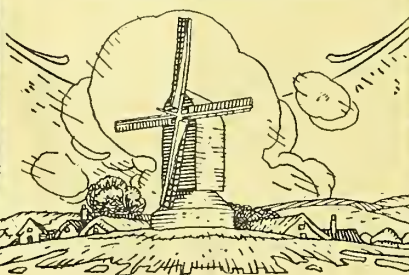
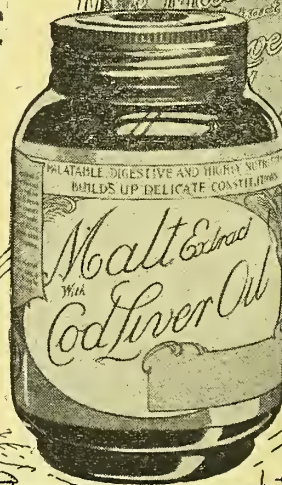
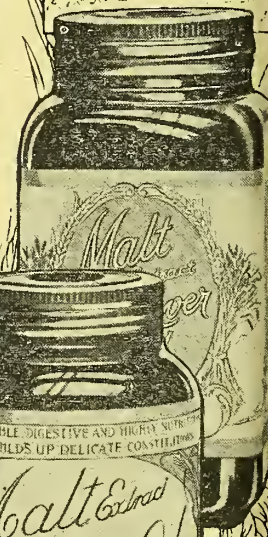
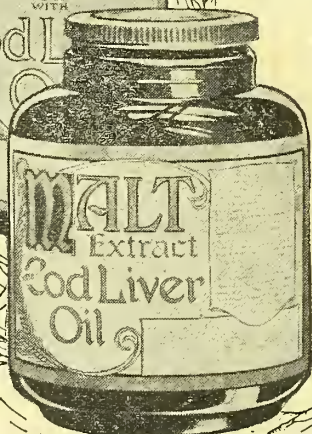
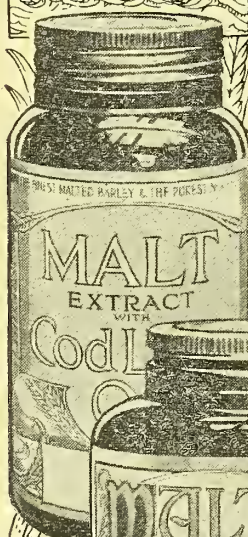
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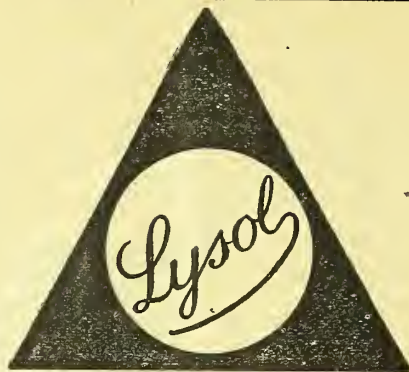
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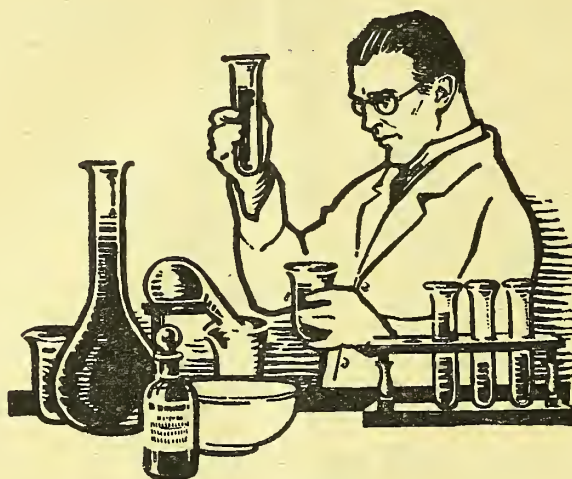
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A careful examination of their products will convince the discriminating pharmacist that this statement is well-founded.

Woolley's are always dependable.

**JAMES WOOLLEY
SONS AND CO. LIMITED**
VICTORIA BRIDGE - - MANCHESTER

Telephone : CENTRAL 8580 (8 lines)

Maw's



Page

Ask yourself

Ask yourself these questions: Is there any other range of Toilet Preparations as complete as the "Parex" series? Any so tastefully packed? Any of the same reliable quality? Any which cannot be supplied by my competitors? Any which yields the same satisfactory margin of profit—100 per cent. on cost?

Then add just one other. Ought I not to order a complete range of "Parex" lines now? We think you will agree that the answer is "Yes."

*Make up your Order from
this List and send it To-day.*

	Per doz.		Per doz.
12/3739 Dental Cream, tubes	7/6	13/3751 Bay Rum	9/-
13/3741 Tooth Powder, flat tins	4/6	13/3752 Bay Rum and Cantharides	9/-
13/3741A Solid Dentifrice	3/9	13/3752A Hair Cream	7/6
13/3741B Dental Plate Soap	3/9	13/3752B Eau de Quinine	7/6
13/3743 Brilliantine, Liquid, small	5/3	13/3753 Vanishing Cream	9/-
" " medium	9/-	13/3754 Skin Cream	9/-
" " large	15/-	13/3746 Shaving Stick	7/6
13/3744 Brilliantine, crystallised	7/6	13/3755 Lanoline	7/6
13/3742 Baby Powder	6/-	13/3756 Cold Cream	7/6
13/3747 Talcum Powder	9/-	13/3757 Lip Salve	3/-
13/3748 Bath Powder	9/-	13/3758 Beauty Leaflets	3/-
13/3749 Toilet Paraffin	9/-	13/3759 Poudre Compacte	7/6
13/3750 Hair Wash	12/-	13/3745 Shampoo Powder (in boxes of 7)	9/-
		" " (loose) per gross	17/6

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.





"Your Customers for Horlick's"

Ideal for Infants.

The "Horlick's Habit" in your customers is a valuable asset, and it properly starts with the Feeding Bottle. You can help this beginning with your confident recommendation, for Horlick's is always right.

It is price-protected,
and sales are directed through Chemists.



Made in England by

Horlick's Malted Milk Co., Ltd., Slough, Bucks.

1



Build up a Profitable HONEY TRADE

The delicious flavour of this thick, "set" creamy

NEW ZEALAND
'Imperial Bee' **Honey**

is irresistible. Sell it and reap a crop of repeat orders. It is a BRITISH EMPIRE PRODUCT THROUGHOUT, and is GUARANTEED PURE and WITHOUT PRESERVATIVES.

CASES per dozen, carriage paid.

48/1's Glass Screw-top Jars	.. .. .	at 14/-
48/1's Glass Screw-top Jars	.. .. .	at 8/6
48/1's Monopots	.. .. .	at 12/6
48/1's Monopots	.. .. .	at 7/3

If you cannot obtain supplies through your wholesaler, write to

A. J. MILLS & CO., Ltd. (Produce & Canned Goods Dept.), 14 Tooley St., London, S.E.1

A & PS/

2

IF YOU WANT GOOD VALUE
IN

FOREIGN, EMPIRE AND BRITISH WINES

"Crown" Brand

LIEBIG'S MEAT AND MALT WINE,
"WIN-FERRO"—TONIC BLOOD WINE
LIME JUICE CORDIAL
and LEMON SQUASH

Write to:

LAMB & WATT, Ltd.

48 St. Anne St., LIVERPOOL

FOR PRICE LIST.

ESTABLISHED 1847.

Sole Distributors of the finest quality of
Australian Red, Tawny, and White Wines (Port
style—full strength) "Mongoose" Brand.

Highest Awards at all International
Exhibitions where shown.

Patent Foods Patent Foods Patent Foods Patent Foods

IN TINS OR TONS

Patent Foods Patent Foods Patent Foods Patent Foods

Special Foods devised for use in conjunction with Curative Treatments, &c.

GEORGE KING & CO. Ltd. SYCAMORE ST., LONDON, E.C.1

Telephone: Clerkenwell 3383.

Telegrams: "Foodokings, Barb., London."

*Do not place your contract
for*

Malt & Oil

before obtaining our prices.

THE BRITISH DIAMALT CO.

Malt Product Manufacturers,

SAWBRIDGEWORTH - HERTS.

RIDGE'S FOOD

for Infants and Invalids

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL
DISPLAY TERMS ON APPLICATION TO:

ROYAL FOOD MILLS, LONDON, N.16



BRAND'S ESSENCE

of Beef, Mutton or Chicken
consists solely of the juice of
the finest meats, prepared
with the greatest care under
the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

BRAND & CO., LTD.

Mayfair Works, Vauxhall, LONDON, S.W.8.



It is made by a special
process which entirely

**ELIMINATES
CRYSTALLIZATION**

and ensures the highest
standard of quality with
an attractive natural
flavour.

Wholesale and Export Enquiries Invited.

PAINE & CO. LTD. St. Neots, Hunts

An open letter

RAZOR BLADE DEPARTMENT.

TELEGRAMS:- "COMPOSITE, SHEFFIELD"

TELEPHONE NOS SHEFFIELD 24372 & 24373.

BENTLEY'S & A.B.C. CODE 6TH EDITION.



JAMES NEILL & COMPANY, (SHEFFIELD) LTD.,
STEEL MANUFACTURERS.



SPECIALITIES.
COMPOSITE STEEL OF EVERY DESCRIPTION.

"ECLIPSE"
HACK SAW BLADES.
PERMANENT MAGNETS.
SAFETY RAZOR BLADES.

COMPOSITE STEEL WORKS

NAPIER STREET,

SHEFFIELD.

DIRECTORS:
JAMES NEILL,
R. A. NEILL,
P. A. NEILL.

Dear Sir,

You will be interested to know that we are on the point of launching a National Advertising Campaign on behalf of our "Eclipse" Razor Blades.

In a few days we shall post you some reprints of the advertisements, and you will find they contain a definite "money-back" guarantee to the user as under, so that you can handle "Eclipse" Blades with entire confidence.

Will you order even so small a quantity as 100 Blades, in order to meet the demand.

Yours faithfully.

JAMES NEILL & CO. (SHEFFIELD) LTD.,

James Neill
CHAIRMAN

OUR OFFER.

Buy a packet of 5 "Eclipse" Blades, from your usual supplier (or if unable to obtain send 1/8 to makers). If, after using two you are not completely satisfied return the 5 Blades direct to us and your 1/8 will be refunded.

*to Chemists
and Druggists*

A new wing

AYRTON'S HAVE JUST ADDED

another wing to their already spacious laboratories. The extra facilities are necessary to enable us to keep pace with our own success, and yet—it is hardly ours, but rather the progress of Chemists who themselves are successful because they have solved the difficulty of "WHERE TO BUY" by appointing "AYRTON'S FOR DRUGS"

CAPSULES . CONCENTRATED WATERS
CONCENTRATED MIXTURES . CREMORS
DECOCTIONS . EXTRACTS . EMULSIONS
ESSENCES . ESSENTIAL OILS . INFUSIONS
LIQUID EXTRACTS . OILS . OINTMENTS
PILLS . . . SYRUPS . . . TINCTURES
FINE CHEMICALS
CRUDE DRUGS
PHOTO. CHEMICALS
PRIVATE FORMULÆ

AYRTON
SAUNDERS
& CO. LTD.

Telegrams: "Sundries
Liverpool"

Telephone: Royal 4861
(43 Extensions)

LIVERPOOL

Soaring higher.

PLAIMAR

(Regd.)

SANDALWOOD OIL B.P.C.

DISTILLED BY

PLAIMAR,
LTD.,
PERTH,
W.A.



Pronounced therapeutic-
ally equal to Oil of
Santalum Album and
physiologically superior

LIMITS OF ANALYSIS:

Sp. Gr. @ 15.5°	.. .. .	0.968 to 0.975
Opt. Rotation α_D	.. .. .	-5° to -16°
Alcohol as Santalol	.. .. .	92% to 96%
Solubility in 70% Alcohol	.. .. .	1 in 3 to 1 in 6 Vols.

EUROPEAN AGENTS:

MAXWELL, PLAISTOWE & Co., Ltd.
8 OLD JEWRY, LONDON, E.C.2.

Telephone: Central 5859.

Telegrams: "Azucena, London."

Paris Address: *ETABLISSEMENTS PLAISTOWE, 11 bis, Rue Volney.*

Allwood Bros

CARNATION PERFUME

Pot Pourri
Compressed Blooms
Silk Sachets
Toilet Soap
Bath Crystals

DO YOU STOCK THEM?

If not, read the offer given below.

We grow the Carnations, endless thousands
of them, from which the perfume is distilled.

Allwood Bros

THE LEADING CARNATION RAISERS & SPECIALISTS
HAYWARDS HEATH

SPECIAL OFFER

To a limited number of Chemists (one
only in each Town) we are supplying our
delightful Perfume on FULL SALE OR
RETURN, with three months' credit. Write
for particulars now.



**MAGNUS,
MABEE & REYNARD
INC.**

AMERICAN ESSENTIAL OILS

BAY	SPRUCE
CEDARLEAF	TANSY
CEDARWOOD	ERIGERON
PEPPERMINT	SPEARMINT
PETITGRAIN	WORMSEED

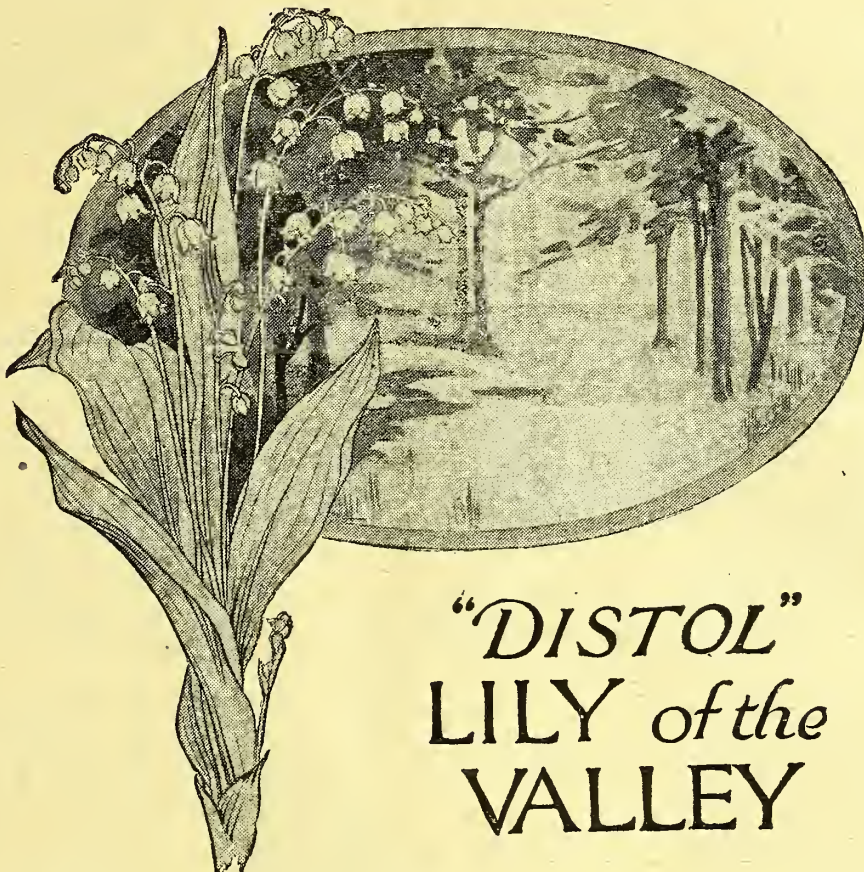
BALSAMS

ADDRESS:

MAIN SALES OFFICES
32 CLIFF STREET, NEW YORK, U.S.A.

Sole Selling Agents for the British Isles—

OLD STRAND CHEMICAL & TRADING CO., Ltd.
Audrey House, Ely Place - LONDON, E.C.1



"DISTOL" LILY of the VALLEY

THE story of "Distol" Lily of the Valley is the story of any one of the numerous "Distol" Ottos. The odours differ, but the quality and convenience are the same always.

Whether your demand is for an elusive perfume such as Lily of the Valley or a clinging oriental scent such as Nubian Poppy, "Distol" Ottos will supply your needs at a minimum of cost and labour, and without locking up capital in big stocks of spirit.

An ounce of any "Distol" costs 7/6 and is made in a few moments into a choice perfume by the simple addition of alcohol and distilled water, without the need of tinting, filtering, blending, distillation or any other time-absorbing process. Samples of perfumes made from any six "Distol" Ottos free on request.

To EXPORT BUYERS:—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Maryland Street, Liverpool

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

C/2

COPYRIGHT

Schimmel & Co., MILTITZ LEIPZIG.

SYNTHETIC FLORAL OILS

The pioneer work of Messrs. Schimmel & Company, beginning nearly a century ago, in the investigation of the chemical constituents to which living flower blossoms owe their *delightful fragrance*, finds its culmination in the oils comprising this group. They have been in widespread use for many years in perfume laboratories *throughout the entire world* and have successfully withstood the test of time. Basically the same, but modernized to keep pace with the progress made by continuous researches in the *world famous laboratories of Schimmel & Company*, they continue to yield the *same universal satisfaction* as in the past.

Stabilize Your Costs !

SCHIMMEL & COMPANY'S SYNTHETIC FLORAL OILS are always uniform in *strength* and in *quality*. The prices do not vary as do those of the natural flower oils.

Among the leaders and especially recommended for trial and comparison by you are

SWEET PEA
PATCHOULY
VETIVER
ROSE

WALLFLOWER
HYACINTH
VIOLET
NEROLI
LAVENDER
LILY of the VALLEY

YLANG-YLANG
CARNATION
JASMINE
LILAC

Sole Distributors
for U. Kingdom :

Messrs. FREDK. BOEHM, Ltd., 15-17 Jewry St., London, E.C.3

SCOTTISH OFFICE : 140 WEST GEORGE STREET, GLASGOW.

PROFIT ON QUALITY

ARMAND quality is distinctive and appealing. It ensures repeats. Armand Advertising is drawing attention to the merits of Armand Toilet Aids. Armand Profit (9/6 in the £1) is your reward for your active interest in Armand Sales.

Display Armand — Recommend Armand. Link up with Armand Advertising and you will make bigger profits.

Send for Price List and further particulars.

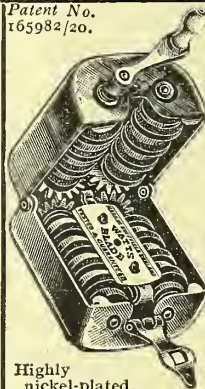
Florian & Armand, Ltd.

Queensway, Ponders End, Middlesex

'Phone : Enfield 0783.

Goods made in Canada

Patent No.
165982/20.



Highly
nickel-plated.

A REMARKABLE BRITISH INVENTION

THE
“**SPIRO**”
SAFETY RAZOR BLADE SHARPENER.

Every user of the “Watts” Safety Razor Blades is a potential purchaser.

== STRONG AND SIMPLE ==

No troublesome fixing. Drop blade on two pegs, close box, turn handle and — get a super-keen blade in a moment. =

Retails at 21/- each.

Suitable for any Gillette Type or
Watts Auto Strip Type Blades.

Allowing 50% profit on cost for the dealer.

Sole Manufacturer:

JOHN WATTS, Lambert Works, SHEFFIELD.

London Office & Showroom:

18 Soho Square, W.1. 'Phone : Gerrard 1306

ESSENCES FRUIT AND ARTIFICIAL

Inquiries are specially invited for the following:—

VANILLA from Selected Beans.

VANILLA from Vanillin.

PEPPERMINT—B.P. Oil.

PINEAPPLE—Artificial.

RASPBERRY—Fruit and Artificial

E. H. BUTLER & SON MANUFACTURING
CHEMISTS —
Humberstone Gate - - LEICESTER

GEORGE IV

*Lavender
Water*

(Regd.)



*What wondrous charm
A surging tide of mist-blue flow'rs,
Flooding the warm, enchanted hours
With perfume—mystic balm.*



PRICES :

4d., 10d., 1/6, 2/8,
5/-, 8/6, 15/6, 22/6,
28/-, 52/-

Sole Proprietors :

FRANCIS DRAKE & CO.

Perfumers

1 EDEN STREET, HAMPSTEAD, LONDON, N.W.1.

THE delicate perfume of the "mist-blue flowers" has been popular for centuries. In the luxurious Court circles of George IV they followed the King's example and scented their exotic toilettes with the subtle odour of lavender water.

The secret formula of George IV Lavender Water is the same as that which they used in the long-past days of the "First Gentleman in Europe." To-day it is made at Mitcham, where the blue fields of lavender flowers thrive so wonderfully. The result is an elegant, charming perfume of lavender which is unique in its refreshing fragrance.

The smart woman of discretion to-day chooses her lavender water very carefully, and therefore always selects George IV Lavender Water, as it is the quintessence of lavender.

MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from:

DEARBORN (1923) LIMITED
37 GRAY'S INN ROAD, LONDON, W.C.1.

The Five Good Points in Selling DAWSON'S DENTIFRICE

IN ALUMINIUM TINS

POINT 1

Superior quality which satisfies your customers.

POINT 2

Attractively packed

POINT 5

The PRINCIPLE POINT
your profit is 50-50

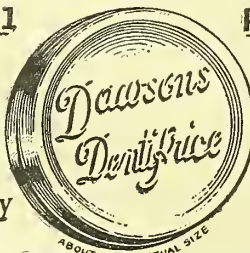
DAWSON'S DENTIFRICE costs you 3/- per doz. and sells at 6/- per tin. Larger Size 4/- per doz. & sells at 9/- per tin

ATTRACTIVE
SHOWCARDS
SUPPLIED

LIBERAL
BONUS FOR
WINDOW DISPLAY

Terms: Carriage & Package Free Monthly Account.
Special Quotations for Wholesalers, Shippers & large Buyers
Order from your usual Wholesaler or direct from

FREER'S MANUFACTURING COMPANY LTD.
6-7, NORTON FOLGATE BISHOPSGATE.
BRITISH MADE Phone Bishopsgate. 2209. LONDON



POINT 3

Considerably cheaper than any other on the market.

POINT 4

Great economy in use.

POWDER PUFFS

Latest
Novelties

WILLIAMSON BROS.

177 SOUTHWARK
BRIDGE RD., S.E.1

Hop 3419



If you don't stock it—you're money out-of-pocket.

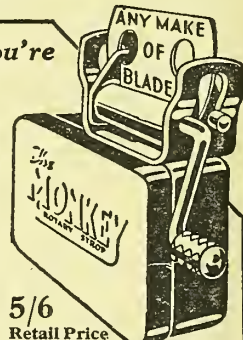
This famous little device, quite the best form of stropper on the market to-day, makes a strong appeal on account of its low price. In its handsome nickelled case it only needs to be displayed on your counter to sell by the dozen—and every sale means 1/9 profit!

Sales matter and particulars of this and other fast-moving Douglas Kirby lines on request. Obtainable from your usual wholesaler, or direct. Complete range of factorist lines. Write for list.

Contractors to all the Scottish Railway Bookstalls.

DOUGLAS KIRBY & CO., LTD., 9/10 CHARING CROSS, LONDON, S.W.1.

Telephone: Gerrard 3147, 8063/4/5. Glasgow - 47 Oswald Street, C.I.



5/6

Retail Price

The "BIG THREE" COFFRET

A SURE SUCCESS FOR THE AUTUMN
AND XMAS SEASONS

Savilles **JUNE** *Perfumery*

NEW POPULAR PRICED
PRESENTATION SET

RETAIL

3/-



PRICE

24/-
PER DOZ.

CONTAINS ONLY THE
ESSENTIALS

for "MY LADY'S TOILET."

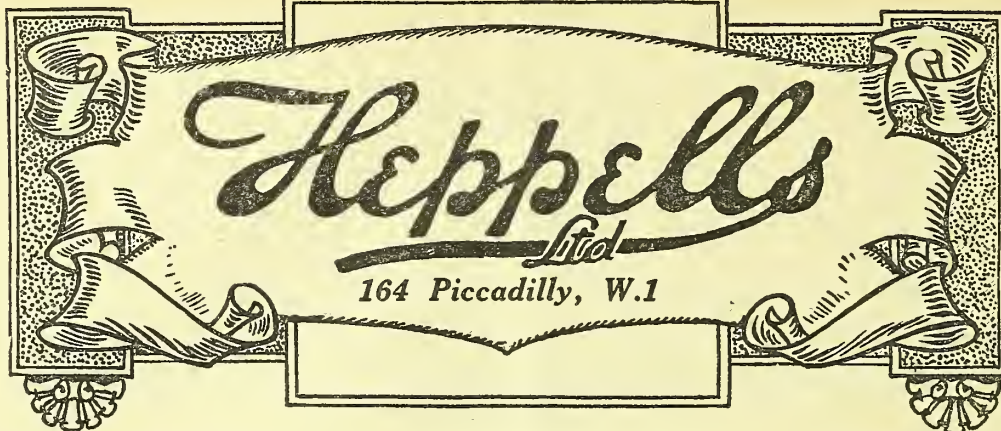
- 1 x 1/3 Bottle "JUNE" Perfume
- 1 x 1/- "JUNE" Beauty Powder
(Sifter and Puff)
- 1 x 9d. "JUNE" Vanishing Cream
(New size)

3/-

No Extra Charge is made for the particularly handsome Presentation Case. This costly item is a gift of our Propaganda Department, who regard this Set as a most effective advertising medium.

IMPORTANT.—As only LIMITED SUPPLIES of this Coffret are available for delivery this Autumn, to avoid disappointment please send your order early. Delivery dates can be arranged to suit your convenience.

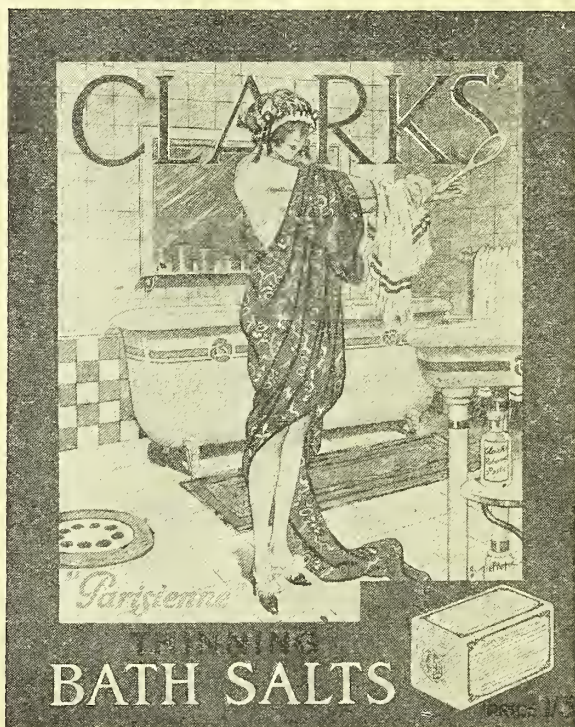
SAVILLE PERFUMERY LIMITED, Junction Laboratories, WATFORD, Herts.



Have you a showcard as below?

THIS
ELEGANT
SHOWCARD
IN COLOUR
SUPPLIED.

SIZE $10\frac{1}{2} \times 8\frac{1}{2}$



A SUPPLY
OF COUNTER
LITERATURE
PROVIDED.

WHOLESALE
PRICE
10/- DOZ.

Clarks' Thinning Bath Salts

ARE BEING LARGELY ADVERTISED.

DON'T LOSE BUSINESS.

A safe, reliable, and elegant home treatment for obesity. It will appeal to your customers, and it will pay you to stock it.

It retails at **1s. 3d. per packet**

Sole Proprietors for Great
Britain and the Colonies:

Heppells
Ltd

164 PICCADILLY
LONDON - W.1

This New Departure in the merchandising of Beauty Preparations is the talk of the town

KHASANA SUPERB

LIPSTICK

ROUGE

CREAM

POWDER

2780 Khasana Superb Lipstick
in metal case, 11/- per doz. to retail at 1/6 each

2782 Khasana Cream Rouge
11/- per doz. to retail at 1/6 each

3 doz. at 11/- per doz. cost	£1 13 0
$\frac{1}{2}$ doz. Bonus	
Cash Discount $2\frac{1}{2}$ per cent.	10
	<u>£1 12 2</u>
$3\frac{1}{2}$ doz. at 1/6 each sell for	£2 18 6
$3\frac{1}{2}$ doz. cost	<u>1 12 2</u>
Profit	£1 6 4

Namely:—£1 6s. 4d. profit on an outlay
of £1 12s. 2d.

Profit on selling price 45·01 per cent.
" " cost " 81·86 " "

2781 Khasana Superb Lipstick
(large size) engraved gilt metal case with hinged
lid, 18/- per doz. to retail at 2/6 each

3 doz. at 18/- cost	£2 14 0
$\frac{1}{2}$ doz. Bonus	
Cash Discount $2\frac{1}{2}$ per cent.	1 4
	<u>£2 12 8</u>
$3\frac{1}{2}$ doz. at 2/6 each sell for	£4 17 6
$3\frac{1}{2}$ doz. cost	<u>2 12 8</u>
Profit	£2 4 10

Namely:—£2 4s. 10d. profit on an outlay
of £2 12s. 8d.

Profit on selling price 45·98 per cent.
" " cost " 85·12 " "

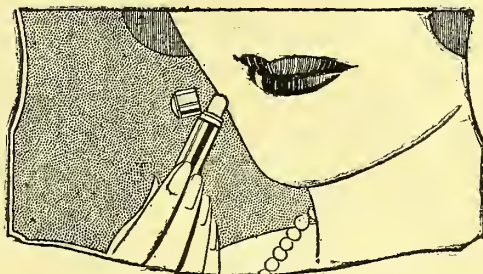
2784 Khasana Compact Rouge
in engraved gilt metal case with mirror
11/6 per doz to retail at 1/6 each

3 doz. at 11/6 per doz. cost	£1 14 6
$\frac{1}{2}$ doz. Bonus	
Cash Discount	10
	<u>£1 13 8</u>
$3\frac{1}{2}$ doz. at 1/6 each sell for	£2 18 6
$3\frac{1}{2}$ doz. cost	<u>1 13 8</u>
Profit	£1 4 10

Namely:—£1 4s. 10d. profit on an outlay
of £1 13s. 8d.

Profit on selling price 42·45 per cent.
" " cost " 73·73 " "

Free demonstration sample with first order.
Showcard. Carriage paid.



Seldom before has such quality in cosmetics been offered to women at such attractive prices. Women inevitably will try Khasana, if only out of curiosity. And once tried, her mirror will secure her permanent allegiance to Khasana.

Khasana Lipstick and Rouge are the very latest type—orange in colour, changing on application to the skin into the exactly right shade demanded by each complexion.

On the eve of the great advertising campaign in such powerful women's publications as:—

Daily Mirror	Picturegoer
Daily Sketch	Woman & Home
Modern Weekly	Modern Woman

We earnestly invite every dealer who has not yet sent us his order, to do so forthwith. ORDER NOW.

Telegrams:
Dremalber, London.

KHASANA LIMITED,
131/2, BUNHILL ROW, LONDON, E.C.1.

Telephones:
Clerkenwell 0373-4

Perfume Sprays & Powder Bowls

Have you gone through your stocks yet and decided on your Christmas requirements?

If so, our new illustrated lists will be helpful to you.

They embrace the latest lines suitable for the coming season. If you have not received one of these lists, let us know and we will post one off to you at once.

BRIDGEN & GRIFFIN

25 Bartlett's Buildings, Holborn Circus, E.C.4.

GALJADO HAIR COLOUR RESTORER

For Grey or Faded Hair.

A preparation which sells on its merits. Non-injurious.

In two sizes:

Retail: 2/- and 3/6 per bottle.

Trade: 12/- and 22/- per dozen.

TRIAL DOZEN SENT POST FREE.

Cash with order.

Note the Profit.

Of all Wholesalers or direct.

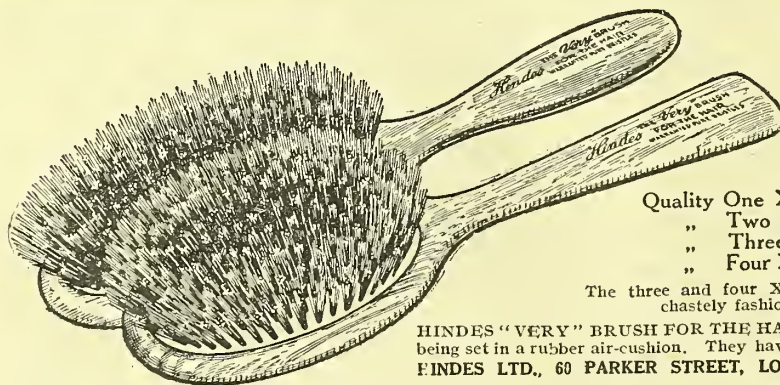
THE GALJADO PERFUMERY CO. Ltd.

93 Worship Street, London, E.C.2.



CHAMOIS. SPONGES.
HOUSEMAIDS' GLOVES.
CHAMOIS PADS.
Send for Price list
John T. Barradell,
23, Blackfriars Street, Manchester.
Phone: Manchester Central 2785 Wires: Sponges, Manchester

GREY HAIRS Trial Phil
appear just here. 8d
TOUCH THEM UP WITH
TATCHO-TONE Post Free
and they will instantly recover their natural shade. Medical Guaranty with each bottle. Chemists' Prices 2/6 and 4/6
TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., 60 PARKER STREET, LONDON, W.C.2. :: Works: BIRMINGHAM

A Name that Merit has made Famous

"HARLENE- HAIR-DRILL"

THE extensive and intensive advertising campaign constantly running in connection with "Harlene" still continues and will still continue to draw immense response from all over the country. Thousands of Free Trial Gift Parcels are dispatched to new applicants every day, thus increasing the already colossal retail business.

Do you stock the following "Quick Sellers" ?

"Harlene" for the Hair

"Uzon" Brilliantine

"Cremex" Shampoo Powders

"Astol" for Grey Hair

"Astine" Vanishing Cream

"Astine" Tooth Cream

"Astine" Shaving Stick

"Astine" Nail Cream

THREE NEW LINES which are QUICK SELLERS

A Big Advertising Campaign is now in progress for the following :—

"HARLENE" Cleansing & Revivifying HAIR FIXATIVE
(FOR GENTLEMEN)

"HARLENE" WAVE-SETTING LOTION (for Ladies)

Price of both { Advertiser (Minimum Retail) 1/3 per bottle
of above { Makers' " " 13/4 per dozen,
less 20% discount

"CREMEX" DRY SHAMPOO

Advertiser (Minimum Retail) 1/6 per box of 7 Shampoos. Single
Packets 3d. each. Makers' 15/10 per dozen, less 20% Discount.

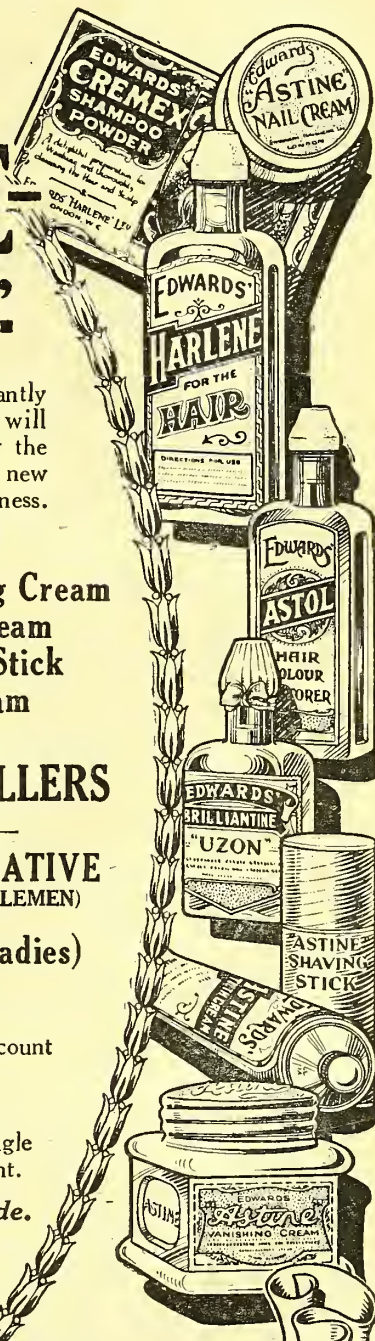
Be One of the First in your District to get this trade.

**PLACE YOUR
ORDER TO-DAY**

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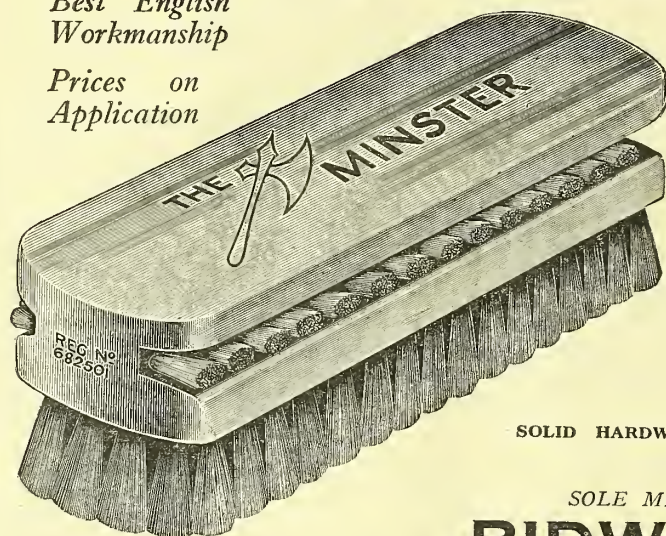


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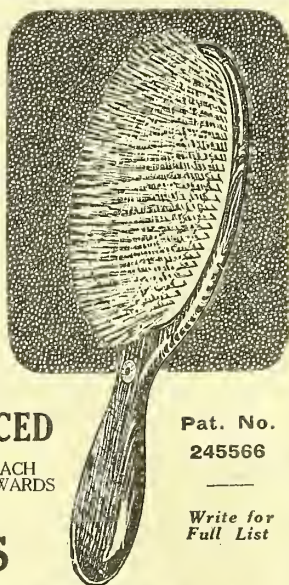
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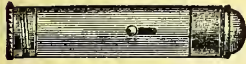
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SIZE
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No. 270.



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Spotlight pocket lamp of solid brass, heavily nickel plated, highly finished. The reflector is designed to ensure maximum brilliant lighting effect, fitted with plain glass and special Spotlight bulb producing a highly concentrated beam projected to considerable distance.

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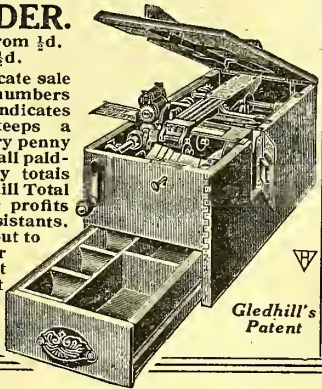
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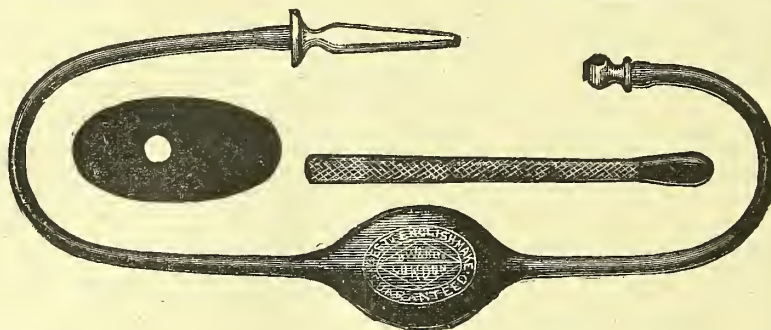
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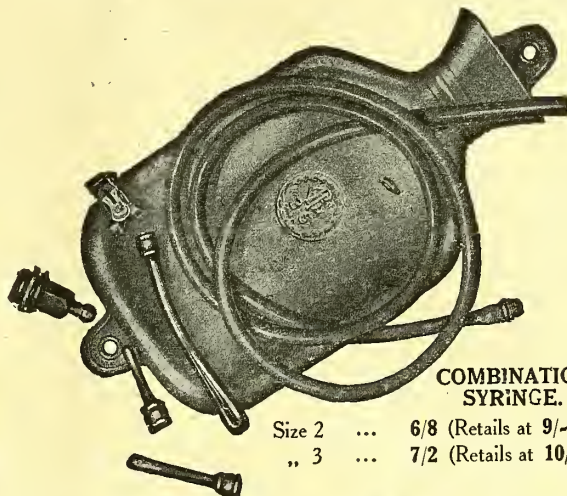
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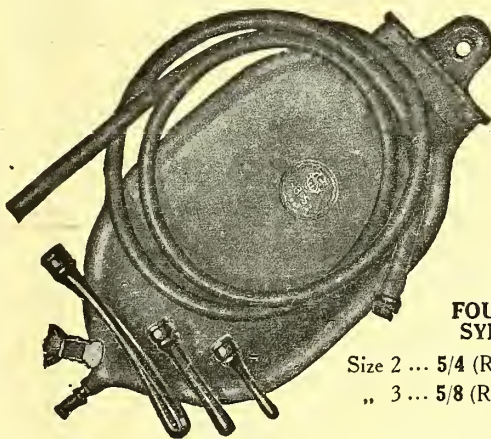
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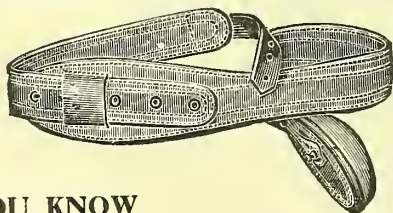
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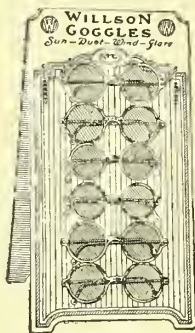
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Each Goggle in a Vest Pocket
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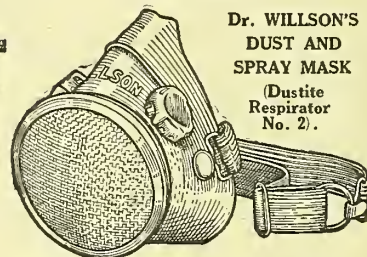
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Dry Filter Model with 2 relief valves.

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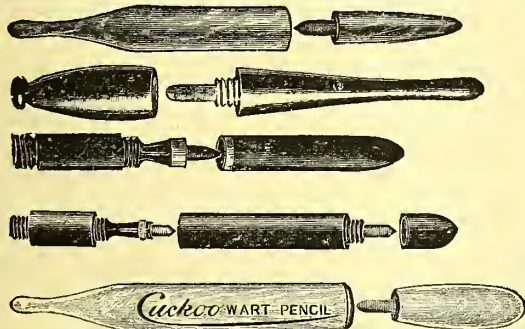
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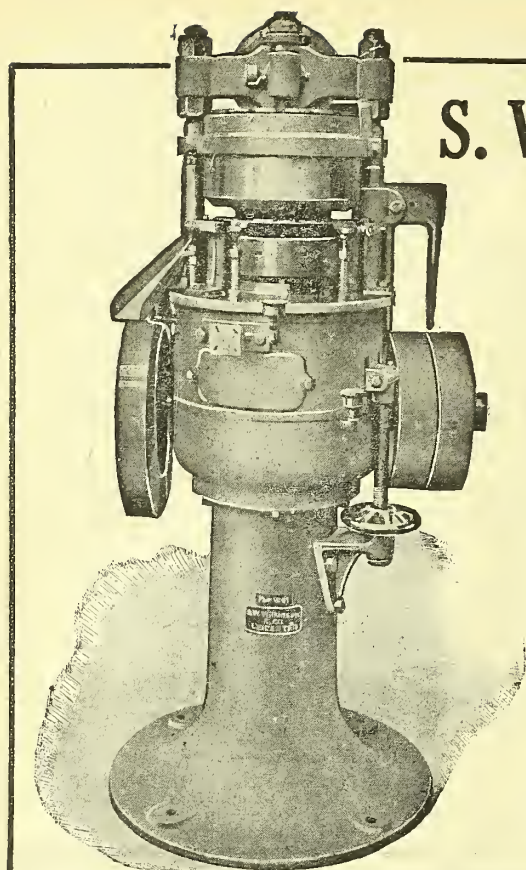
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These Machines are now made in 4 sizes :

12-Punch Ordinary for Tablets from $\frac{3}{8}$ " to $\frac{7}{8}$ " diameter.

Output 400 per min.

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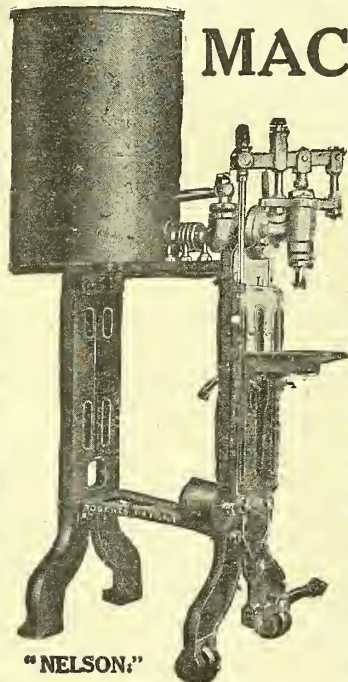
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**CLEANLINESS
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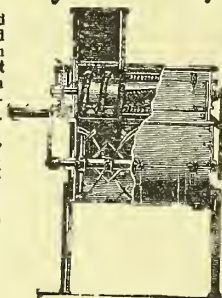
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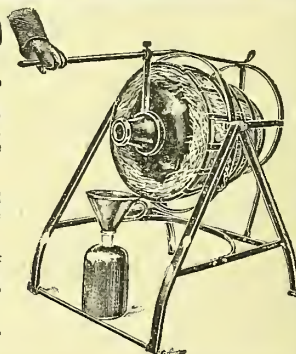
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The Carboy can be tipped to any position with one hand.

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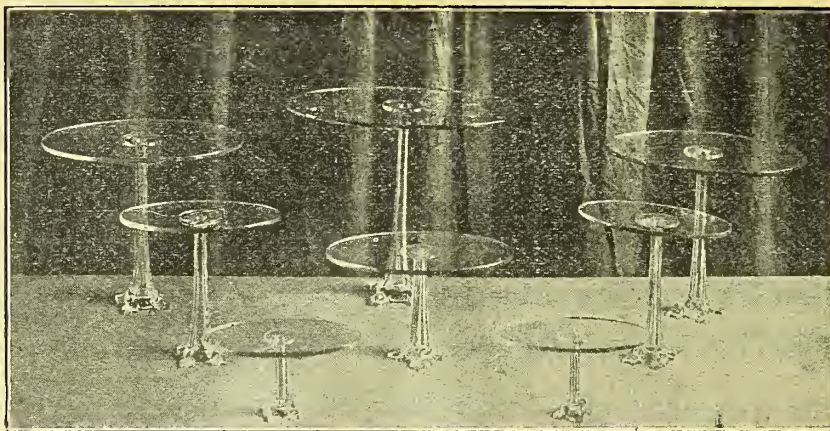


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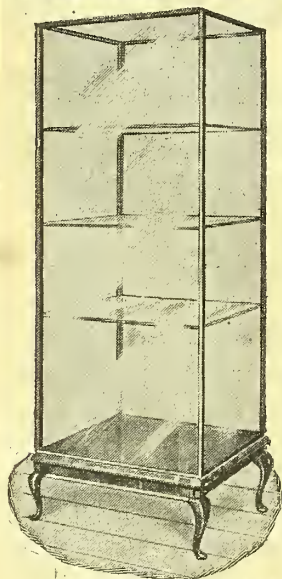
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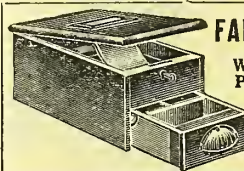
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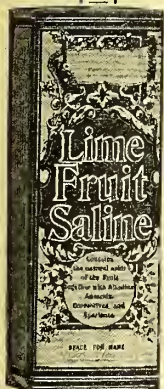
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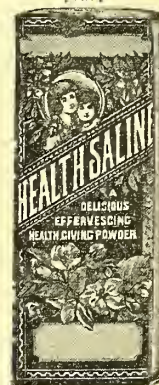
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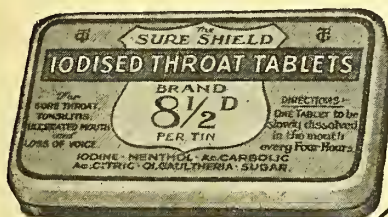
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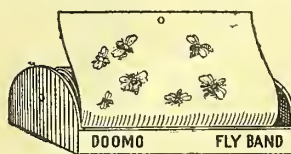
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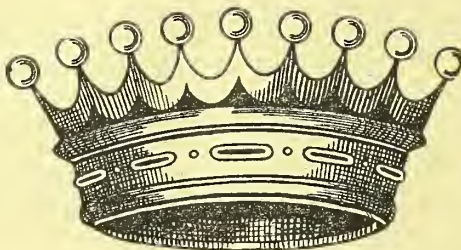
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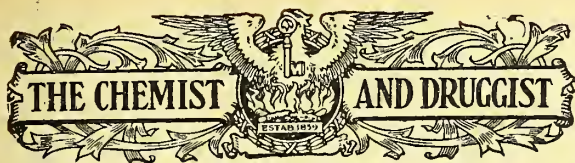
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Glass.—A glass having a large content of heavy oxides such as barium or lead and oxide of zirconium or zircon, for absorbing x-rays and other rays of short wave-length. (Chauny and Ciry, Paris. 264,495.)

Milk Sterilisation.—A process of sterilising milk in bottles or other containers under pressure whereby calcic salts and albumens are preserved in their original state. (Félix Humbeek, Malines. 268,603.)

Phosphorus.—A process for the production of phosphorus by reduction of monocalcic phosphate or phosphoric acid heated in the presence of charcoal used in excess. (Ed. Urbain, Paris. 257,917.)

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Merchandise Marks Act

It is announced that applications for an Order in Council under the Merchandise Marks Act, 1926, to require the marking of imported lard have been referred for inquiry to the Standing Committee set up under the Act. The date of the inquiry will be announced later.

Public Health (Dried Milk) Amendment Regulations, 1927

The Minister of Health has issued a draft of Regulations amending the Public Health (Dried Milk) Regulations, 1923 (Stationery Office, 1d.). The principal feature of the proposed Regulations, which are to come into force on July 1, 1928, is the directions for printing the labels for the three kinds of dried milk officially recognised; specimen wording is shown.

Orange Juice on Merchant Ships

A recent Order in Council has authorised the use of concentrated orange juice as an anti-scorbutic on board merchant vessels. According to the Order, the juice must not contain less than 70 per cent. of total soluble solids by weight: it must be free from signs of alcoholic fermentation and contain no mould growths. It must be prepared from the fresh juice of sound oranges free from fermentation and moulds with the addition of best cane sugar only, and should not contain any added colouring matter, chemical preservatives or metallic impurities. The quantity of cane sugar to be added must not exceed 20 per cent. by weight of the finished product. The glass bottles must not contain more than one pint, bearing a label with the date of manufacture, the volume of contents being stated in fluid ounces. Every brand must be submitted to the Board of Trade for their approval and certification. The juice must be served out to the crew as soon as they have been at sea for ten days and during the remainder of the voyage, except during such times as they are in harbour and are there supplied with fresh provisions. In connection with the above, it is reported that orange juice is now being experimented with at the Naval School of Medicine at Greenwich, and may be adopted in the Navy.

Public Institution Affairs

The Guildford Guardians' committee which has been investigating the death of two inmates of the infirmary who died, on the finding of a coroner's jury, as the result of a dose of lobelia powder administered in error for liquorice powder (*C. & D.*, July 23, p. 108), presented their report on August 20. It was stated that officers had been questioned, and that no negligence could be attributed to anyone. The report added that it was desirable to reorganise the arrangements for the transit of medicines from one part of the institution to another. Mr. P. T. Fairbrother said that the matter was profoundly unsatisfactory. Surely it was a contradiction in terms to say that the committee could not find that there was any negligence. There had been negligence on the part of some one, but they would never find it. The report was adopted after further discussion.

Fires

There was an outbreak of fire recently at the premises of Mr. J. H. Fletcher, chemist and druggist, Darlington, due, it is thought, to the action of the sun's rays through a lens. The damage was not of a serious nature.

A fire broke out on August 21 at the works of Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton. The flames originated in, and were confined to, the printing department, which was burnt out. The offices underneath were damaged by water, and a drug store-room in the basement was flooded; the damage is estimated at not more than £10,000. It is expected that after this week there will be no delay in the execution of orders.

Poison-Licence Applications

Brunskill & Farrer, Kendal, have applied to the local authority for a licence to sell agricultural and horticultural poisons.

An application for a licence under Section 2 of the Poisons and Pharmacy Act, 1908, has been made to Warrington Town Council by Mr. T. Pierpoint, King Street.

At a recent meeting of Taunton Town Council a member asked if the application of a local seedsman had been refused, and if the Council was aware that chemists generally did not specialise in such goods or advise treatment for plant diseases and insect pests. In reply, it was stated that the chemists of the town did meet the want mentioned, and it was not thought wise to grant the licence referred to until additional evidence was forthcoming.

Birmingham

Sir Oliver and Lady Lodge celebrated their golden wedding on August 22. Sir Oliver Lodge, who is seventy-six, was formerly Principal of Birmingham University.

A. Edmonds & Co., chemists' shopfitters, Constitution Hill, have obtained a contract amounting to £21,000 for museum cases for the Auckland War Memorial, Auckland, New Zealand.

Leicester

The annual meeting of the Leicester and Leicestershire Branch of the Pharmaceutical Society was held recently, Mr. A. E. Young in the chair. Reports from the secretary and treasurer were adopted. The local branch and the local R.P.U. members have collected £161 5s. 6d. towards the Pharmaceutical Parliamentary Fund. The branch membership is 140, with twenty-six student-associates. The efforts of the branch in connection with the education of pharmacy students at the Technical College were favourably reported on and a substantial grant was made towards equipment. The following officers were elected: *President*, Mr. A. E. Young; *Vice-president*, Mr. J. Barker; *Secretary and Treasurer*, Mr. E. L. Burrows.

The annual meeting of the Leicester and Leicestershire Branch of the Retail Pharmacists' Union took place on August 17. Mr. E. A. A. Fry presided. The report of the annual window-dressing competition was as follows:—Class A, confined to previous winners—(1) Miss Lindop (W. T. Hind); (2) R. Jeffs. Class B, for new entrants—(1) W. Raven (A. D. Hearnshaw); (2) W. L. Lean (Young & Son). Miss Lindop secures the silver cup for the highest percentage of marks in the competition, and also wins the prize for the largest number of entries from one competitor (26). The election of new officers resulted as follows: *Chairman*, Mr. E. A. A. Fry; *Vice-Chairman*, Mr. A. H. Spiers; *Secretary*, Mr. H. A. Martin; *Treasurer*, Mr. G. H. Rimmington; *Committee*, Miss Bonsor, Messrs. Allwood, A. E. Young, F. H. Clark, F. T. Wilby, Fonyan, Blockley, and Hannam. *Assistant secretary*, F. H. Leake.

Miscellaneous

WINDOW-DRESSING AWARD.—In connection with the recent shopping carnival at Prestatyn, Mr. W. E. Pritchard, chemist and druggist, has been awarded the first prize for the best shop-window display.

FAMOUS PICTURE ON TOUR.—During the past few days "Bubbles," the well-known picture painted by the late Sir John Millais and purchased by A. & F. Pears, Ltd., for £2,200, has been on view at the premises of Duck & Son, chemists, St. John's Square, Cardiff, where it has attracted much attention.

THEFT OF CAMERAS.—A window at the premises of The Broadway Pharmacy, Ltd., chemists, Cricklewood Broadway, London, N.W.2, was broken on August 22 and the following cameras were stolen: Vest-pocket Kodak, Series III, Kodar lens, 28645; No. 1 pocket Kodak, 49560; No. 1 pocket Kodak, f7.9 Kodar lens, 41180; No. 1a pocket Kodak, 41211.

APPROVED SOCIETIES' DENTAL CLINIC.—A dental clinic is being established in London for the benefit of certain approved societies under the Health Insurance Acts, and

it is expected that it will be open before the end of this year. The approved societies, says "The Times," are spending a sum of nearly £2,500,000 a year on dental treatment for their members. It has been estimated that a reduction to the extent of one-third can be effected in the dental charges if the eight to twelve chairs which it is intended to provide in the central clinic are continuously occupied by patients, and this provision could be extended later if necessary.

IN THE COURTS.—At Leeds, on August 17, Mr. J. H. Markham, trading as Watson, Walker & Quickfall, manufacturing chemists, Nassau Place, was fined 40s. on each of nine charges for failure to pay Health Insurance and Unemployment Insurance contributions in respect of certain employees.—At Newcastle-upon-Tyne, recently, William Queenan was sentenced to three months' imprisonment for the theft of Andrew's Liver Salt valued at £6 8s., the property of Scott & Turner, Ltd.—At Hull Police Court, recently, John Broughton (18), Dover Crescent, described as a chemist, was fined 15s., with costs, for motor-cycling to the common danger.

LANCASTER MUSEUM.—An interesting addition to Lancaster Museum is the mortar and pestle used by the late Sir Edward Frankland, F.R.S., while he was apprenticed to a chemist in Cheapside, Lancaster. They have been presented by Mr. A. H. Robertson, chemist and druggist, the present proprietor of Vince & Co., who owns the old-established shop. Sir Edward mentioned, in his memoirs, that for some time he was kept to mixing a mercurial ointment. He afterwards became the first professor of chemistry at Owens College, Manchester (now the Victoria University). Sir Edward is remembered at Lancaster by a prize at the Royal Grammar School and a prize at the Stoney Technical College (given by his son, Professor Percy F. Frankland).

Scottish News

Brevities

In spite of inclement weather, photographic business continues to prosper.

Dispensing in many Scottish districts has been heavy for this season of the year.

Councillor W. G. Anderson, chemist and druggist, has been elected the new junior magistrate of Forres Town Council.

Sales of certain of the higher-priced infant foods have suffered a set-back in industrial areas. The child welfare centres are blamed for this state of affairs.

Mr. R. H. Allen, of R. H. Allen & Co., manufacturing chemists, Sydenham, London, S.E., will shortly arrive at the Grand Hotel, Glasgow, to appoint a representative for Scotland in place of the late Mr. A. W. Simpson.

The death has taken place at Innellan of Mr. Peter Latta, glass bottle manufacturer, who for many years operated a factory in the Firhill district of Glasgow, and, with his son, built the North British Bottle Works at Shettleston.

The single-handed competition for the Travellers' trophy of the Scottish Chemists' Bowling Association, open to retail and wholesale chemists of Scotland who are members of bowling clubs, will take place on Rutherglen Bowling Green, Stonelaw Road, Rutherglen, on September 7. Entries, with entry fee of 2s. 6d., to be made not later than September 2 to the secretary, Mr. J. T. Simpson, 268 Crown Street, Glasgow, C.5.

Edinburgh

The Leith Provident Co-operative Society, Ltd., opened a new drug department on August 13.

The death has occurred in Edinburgh of Dr. Harvey Littlejohn, who has held the chair of Forensic Medicine in Edinburgh since 1906. Dr. Littlejohn qualified in Edinburgh in 1886. The late professor has made several bequests to the University.

INDIAN RESIN.—The resin industry in India after a brief set-back is again expanding, while quality of the crop has been excellent. The production in 1926-27 was 6,000,000 lb., against 4,761,200 lb. in 1925-26, and 9,777,500 in 1924-25.

French News

From the "C. & D." Paris Correspondent.

THE glass-bottle industry is passing through a crisis owing to the economic conditions created by the revalorization of the franc and over-production, and three firms who have installed automatic machinery are in a position to capture the market for standard medicine bottles. The fancy-bottle industry, which is in the hands of Normandy glass manufacturers, is not affected, as this class of article, being hand-made and of a variety of types, does not lend itself to mass production.

THE MINISTER OF COMMERCE having addressed to the president of the Wholesale Druggists' Association a letter of introduction to M. Lomowsky, commercial representative of the U.S.S.R. in France, the matter was laid before a meeting of the Board of Direction of the French Association. The wholesale buying of medicinal herbs and raw products being of interest to certain wholesale drug firms, it was decided to circularise the members of the association to learn their probable needs with a view to a more careful study of the matter.

PERCOLATION VERSUS MACERATION.—M. E. Léger has studied the relative merits of percolation and maceration as applied to the preparation of tinctures of cinchona, nux vomica, and ipecacuanha. The difference of opinion in this matter is illustrated by the fact that the 1866 Codex prescribed percolation, while in the 1884 edition this method was abandoned, to be reintroduced in the Codex of 1908 in preparing ten alcoholic tinctures. In the case of cinchona and nux vomica, M. Léger thinks there is little to choose, but with ipecacuanha percolation apparently yielded better results. However, by slightly reducing the amount of alcohol (as specified by the U.S.P.), tinctures of the same strength can be obtained by maceration, and he thinks that this process does not deserve to be abandoned. He remarks that the current German pharmacopœia specifies maceration for all alcoholic tinctures.

Legal Reports

Calced Magnesia in Cartons.—In Portarlington District Court, recently, Mr. Thomas William Rice, L.A.H., L.R.C.P., L.R.C.S., L.P.S.I., was summoned for having sold at his pharmacy calced magnesia which was not of the nature, substance and quality demanded. The public analyst's certificate (produced) showed the magnesia to be deficient to the extent of 34 per cent. Dr. Rice explained to the Court the process by which the calced magnesia was produced, and said that it would then contain only 1 per cent. of volatile matter, because it was pure oxide. He produced a specimen of the cartons in which the magnesia in question was sold, and said that the moment he heard of the complaint and of the analysis he immediately "scrapped" all that was in pasteboard cartons, although they had been selling it that way for thirty-five years. They now only sold calced magnesia out of tins. The justice held that a technical offence was committed. He dismissed the summons under the Probation of Offenders Act on the defendant undertaking to pay 4s. Court costs and 10s. 6d., the cost of the analysis.

Dispensing Tested.—At Ramsgate County Police Court, on August 16, Mr. Edwin Siminon, chemist and druggist, Minster, was summoned for having sold a compound drug not composed of the ingredients in accordance with the demand, inasmuch as it contained only 39.19 gr. of potassium iodide, instead of 120 gr., as demanded. Mr. W. J. Daniel prosecuted for the Isle of Thanet Rural District Council, and Mr. J. H. Robinson represented the defendant, who formally pleaded "Not guilty." Mr. Daniel remarked that the prescription stated, "Potassium bicarbonate and potassium iodide, each two drachms." Dr. A. M. Watts, medical officer of health, said that the most important drug in the prescription was potassium iodide, but the amount dispensed by the defendant would have very little effect. The cost of potassium iodide was 21s. 3d. per lb., while the cost of

potassium bicarbonate was very small. Mr. Robinson said he did not dispute the facts, for there was no doubt that a mistake had been made in that case. Mr. Siminon, giving evidence, said he had been a chemist in Minster for fifteen years. He did not intentionally put two scruples instead of two drachms of potassium iodide in the medicine. He attributed the mistake to the way in which he entered the prescription in his book. In reply to Mr. Daniel, the defendant said he had not brought the book with him. A fine of £2, with £3 3s. costs, was imposed.

Unintentional Infringement.—In the High Court, Dublin, on August 22, in the action of the Irish Industrial Development Association (Inc.) v. Butler's Medical Hall, Ltd., 40 Mary Street, Dublin, Mr. Gavan Duffy, on behalf of the plaintiffs, applied to make a consent a rule of Court. The plaintiffs claimed an injunction restraining the defendants, their officers, servants and agents, from using or permitting to be used "The Irish Trade Mark" (being the trade-mark registered by the plaintiffs as a mark of Irish origin) without the authority of the plaintiffs, and from using or permitting to be used any other combination of marks or words so contrived as by colourable imitation or otherwise to represent goods sold or supplied by the defendants to be certified by the plaintiffs as being of Irish origin. The plaintiffs also sought an order for the destruction of all bottles and other articles in the possession of the defendants to which "The Irish Trade Mark" had been affixed without the authority of the plaintiffs. By the consent the defendants admitted the exclusive property of the plaintiffs in "The Irish Trade Mark," and expressed their regret for having unintentionally infringed the plaintiffs' rights; and they undertook to commit no further infringement. They also undertook to discontinue forthwith the use of labels bearing the inscription "Lysol Butler" in conjunction with "The Irish Trade Mark"; to destroy all such labels in the presence of the plaintiffs' representative; and to pay to the plaintiffs the agreed sum of £22 13s. 6d. for the costs incurred by the plaintiffs in connection with the action. Counsel said that the plaintiffs were satisfied that the infringement was unintentional. Mr. Justice Hanna received the consent and made it a rule of Court.

An Irregular Record.—At the Belfast Summons Court, recently, Mr. Robert Samuel Thompson, R.D., Ann Street, was charged with having sold strychnine contrary to the Act, in that the signature of the purchaser was not affixed to the entry in the book kept for the purpose. There was a second summons charging the defendant with having sold the poison to Rosannah Yendall, Ballyaltkilligan, a person unknown to him. District Inspector Nevin, who prosecuted, said that on June 27 a person named Yendall entered the defendant's shop and asked for strychnine with which to poison rats. On July 6 the woman poisoned her child, and later tried to poison herself. The police, on making inquiries, found that the name of the purchaser, as entered by the defendant, was different from the signature of the person who made the purchase. On examining the register at a later date, it was found that the names had been made to correspond. Mr. John Graham, who appeared for the defendant, said that his client had been carrying on business for eleven years without any blemish upon his character. He contended that the defendant had complied in every detail with the requirements of the law. The person who purchased the poison was known to him as a regular customer, but he did not know her name. Mr. Thompson, giving evidence, said that a woman came into his shop and asked for strychnine for the destruction of rats. Witness knew her, but not by name, and when he asked her for it she said "Mrs. Pettigrew." He put that down in the register, and on requesting her to sign it, she inquired whether she should put down her own name or that of her sister, Mrs. Pettigrew—the name she had already given. Witness asked, "Why your sister's name?" and the woman replied, "We both live in the same house." He told her to sign her own name, and she wrote "M. Johnston." Cross-examined: It was his intention to make the alteration at the time of the sale, but he omitted to do so. The magistrates decided to convict, and by a majority a fine of £5 was imposed on the first summons.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

CHARLES STAFFORD PROPRIETARY, LTD. (P.C.).—Capital £1,500. Objects: To carry on the business of manufacturers and vendors of proprietary remedies, etc. Solicitors: Pinsent & Co., 6 Bennetts Hill, Birmingham.

PHARMACY (CLONAKILTY), LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale and retail chemists and druggists, sundriesmen, etc. The first directors are: P. O'Sullivan, Cork, and P. O. Sullivan, junior.

ARTHUR WHARTON (NORTHERN), LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of dealers in coal, coke, by-products, products of tar distillation, chemicals, patent fuel, minerals . . . R.O.: Mail Buildings, Hull.

ALLIED CHEMICAL CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in automatic vending machines, chemicals, toilet accessories and requisites . . . R.O.: 14 Clarges Street, London, W.1.

HARTNESS, LTD. (P.C.).—Capital £200. Objects: To carry on the business of manufacturing chemists and druggists, chemists' and druggists' sundriesmen, chemical manufacturers, etc. The directors are: Belle H. Hartness, J. A. Hartness.

UNIVERSAL AFRICAN TRADING CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of merchants, produce brokers, shippers, ship-owners, bankers, commercial agents, capitalists, financiers, concessionaires, etc. The directors are: J. Thorpe (permanent) and J. T. Jennens. R.O.: Morley House, 314-322 Regent Street, W.1.

J. J. DONACHEY (DUNDEE), LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist and druggist and retailer of medicated wines and beverages carried on by Sarah Jane Donachey at 185 Overgate, Dundee. The first directors are: Miss S. J. Donachey, Dundee, and J. J. Naulty, Dundee. Solicitors: Urquhart & McWalter, Dundee.

HYGIENIC STORES (GLASGOW), LTD. (P.C.).—Registered in Edinburgh. Capital £1,000. Objects: To carry on the business of manufacturers and sellers of surgical instruments, sick room and hospital requisites, chemists' sundries, etc. The directors are: W. McCraig, junr., Glasgow, and Mrs. A. F. McCraig, Glasgow. R.O.: 76 Renfrew Street, Glasgow.

EPIDOL, LTD. (P.C.).—Registered in Edinburgh. Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in remedial substances and appliances of all kinds for human beings and animals, etc. The directors are: J. G. Findlay, J. A. Gardner, Capt. R. M. C. A. Hastings. R.O.: Caxton Chambers, Bank Street, Kilmarnock.

W. BRENNAN & CO., LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of W. Brennan, plain and fancy box manufacturer, and to carry on the same and the business of manufacturers of and dealers in cases, receptacles and other articles made of cardboard, pasteboard, wood, fibre or other like material, etc. W. Brennan is permanent governing director. R.O.: 17 Rushton Street, New North Road, N.1.

NUTRIS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturing, export and wholesale and retail confectioners, dealers in spices and sugars, manufacturers of and dealers in mineral and aerated waters, dealers in fancy goods, drysalts, fruit growers, manufacturing chemists, etc. The directors are: W. A. Lewis, S. Greenfield. R.O.: 4 London Wall Avenue, London Wall, E.C.2.

GREENFIELDS CONFECTIONS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturing, export, wholesale and retail confectioners, dealers in spices and sugars, manufacturers of and dealers in mineral and aerated waters, dealers in fancy goods, drysalts, fruit growers, manufacturing chemists, etc. The directors are: W. A. Lewis, S. Greenfield. R.O.: 1A Forest Lane, Maryland Point, Stratford, E.15.

HENRY HODDER & CO., LTD.—The profit for the year ended June 30, 1927, including profits from realisation of investments, was £12,564, plus £13,053 brought forward. The directors recommend a further dividend of 10 per cent., together with a bonus of 5 per cent. (making 20 per cent.), and that £1,500 be transferred to reserve, leaving £14,517 to be carried forward.

COMPANIES DISSOLVED.—Notice has been given in "The London Gazette" that the names of the under-mentioned companies have been struck off the register and the companies dissolved: Baltic Wharf Chemicals, Ltd.; Direct Sponge & Chamois Supply Co., Ltd.; Doctor Kynaston's Methods, Ltd.; Electro Chemical Manufacturing Co., Ltd.; Phosaline, Ltd.; Rockcastle Chemical Co., Ltd.; Standard Wood Chemicals Co., Ltd.; Veeta Chemical Co., Ltd.; Western Tablet Co., Ltd.

TAYLOR'S (CASH CHEMISTS) TRUST, LTD.—We understand (says the "Observer") that negotiations are in progress for the formation of a new "Cash Chemists" combination. The centre of the new organisation will be Taylor's (Cash Chemists) Trust, Ltd., which was formed early this year for the purpose of acquiring the whole of the issued share capital of Taylor's Drug Co., and the whole of the deferred ordinary shares of Prichard & Constance (Manufacturing), Ltd., the proprietors of "Amami" preparations. The issued capital of the company is £520,000. The companies which are stated to be interested in the negotiations are: R. Hovenden & Sons, Ltd., of Berners Street, and Timothy White, Ltd., cash chemists.

HEFFELS, LTD.—The directors have issued their second report, covering the period of twenty-three months to March 31, 1927. This shows a gross income of £47,391, compared with £33,601 for the previous period of fourteen and a half months. After providing administration expenses of £19,069, directors' fees £4,010, interest on bank loan £3,352, and £64 for furniture depreciation, the net profit amounted to £20,895, compared with £21,587. The preference shares to March 31, 1927, requires £24,640, the result being that the balance of £4,380 brought in is reduced to £635. The directors point out that £19,805 was charged to revenue in respect of advertising. During the period under review, states the report, the business, in common with many others, suffered from effects of the general strike and the prolonged coal strike, which events seriously reduced the spending power of the public. From the closing of the accounts at March 31 last the trading results of the business have shown a steady increase compared with the same period last year. It is again stated in the balance sheet that there is a claim for interest at 5½ per cent. per annum on the purchase consideration made by the original vendor, which is disputed by the company, and therefore not dealt with in the balance sheet.

UNITED DRUG CO.—The earnings of the United Drug Co. of America, for the first half of the current year, show further substantial progress (says the "Financial Times"), though higher working expenses have somewhat reduced the profit margin. Net sales have risen nearly 7 per cent. and amounted to over nine millions. The increase in costs occurred in both the manufacturing and distributing branches, but in rather greater ratio in the latter. There was a decided improvement in the position towards the end of the six months, and for June itself there was not only a big increase in turnover, but in profit as well. The net profit for the half-year, after allowing for everything except Federal taxes, was nearly £600,000, which is about £160 less than for the corresponding period of 1926. The recent financing of the Louis K. Liggett Co., which bears much the same relation to the United Drug that the Cash Chemists do to the Boots Pure Drug Co., has disclosed for the first time the retail profits earned, as distinct from the manufacturing. In 1926 the respective proportions were 34½ and 50½ per cent., the remaining 14½ per cent. being made up by the revenue derived from subsidiaries and holdings abroad, which include the Boots Pure Drug Co. The latter is described as a big earner, and not long ago the United Drug's equity in the undistributed earnings of all the foreign associates was put as high as \$2.50 per common share, which would be equivalent to about £180,000.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Gloucestershire.—A meeting of the Insurance Committee was held on July 23. The Pharmaceutical Service Subcommittee reported on two cases of inaccurate dispensing. In the first case a deficiency of 19 per cent. in potassium nitrate was reported. The chemist explained that his solution of potassium nitrate from which the medicine was dispensed had crystallised, and that the solution was therefore under strength. It was decided that the sum of £1 be withheld. In the second case the analysis showed an excess of 13 per cent. in iron and ammonium citrate and an excess of 5.2 per cent. in magnesium sulphate. The chemist submitted a report of the second portion of the sample, which gave the excesses as 8.5 per cent. in the case of the iron and ammonium citrate, and 3.5 per cent. in the case of magnesium sulphate. The chemist was cautioned.

Norwich.—At a meeting of the Insurance Committee, on July 26, it was reported that a test prescription dispensed by a chemist contained excess of 45 per cent. of pot. iodid. The chemist, in reply, stated that through the Pharmacopœia being worn out, the apprentice made a copy from the original one and had reversed Nos. 46 and 47, so that the latter instead of the former was made up, which contains $7\frac{1}{2}$ -grain doses of pot. iodid. instead of 5 grains, also the mixture has Inf. quassia instead of Inf. calumba. The chemist was censured.

Nottinghamshire.—At the meeting of the County Pharmaceutical Committee, held on August 10, the following officers were elected:—*Chairman*, Mr. A. H. Bell (Mansfield); *Treasurer*, Mr. G. W. Briggs (Sutton-in-Ashfield); *Secretary*, Mr. W. O. Pegg (Mansfield).

Rutland.—At a meeting of the Insurance Committee recently it was reported that the number of prescriptions in 1926 was 6,174, an increase of 105 on 1925, and of 2,222 on 1916.

Surrey.—At a meeting of the Insurance Committee on July 27, the report of the Pharmaceutical Service Subcommittee was presented. In two cases of test dispensing the medicine was carelessly dispensed, and the chemists were cautioned. In the third case the chemist was in an institution suffering from a nervous breakdown, and while regretting that the medicine was inaccurately dispensed no action was taken. In five cases previously dealt with, the Minister of Health had decided to withhold £1 in respect of each case. The report was adopted.

Warwickshire.—The Pharmaceutical Committee met at Leamington on July 14, when all retiring members were re-elected and the subcommittees reappointed. It was decided to support a recommendation that the drug fund should be allocated to each area, in proportion to the number of insured persons in that area, at the rate of about 2s. 10 $\frac{1}{2}$ d. The committee agreed to meet representatives of the Panel and Insurance Committees to discuss the question of economy in prescribing, if desired.

Westmorland.—At a meeting of the Insurance Committee on August 16 the Pharmaceutical Service Subcommittee recommended that three chemists be cautioned for incorrect dispensing, and that the chemists in question be informed that the committee expects a higher degree of efficiency in dispensing in future. The recommendation was adopted.

Worcester.—At a recent meeting of the Insurance Committee, the chairman said that a serious position had arisen with regard to the drug fund. He called attention to the fact that the average cost of prescriptions had been higher than in other places. The suggestion made was that the doctors should be asked to assist by giving such prescriptions as would be sufficient for their purpose, and at the same time make it easier for the drug fund.

SCOTLAND

Roxburgh.—At a meeting of the County Insurance Committee held at Newtown St. Boswells recently, it was stated that the expenditure on the drug fund for 1926 was the highest in Roxburghshire since the inception of National Health Insurance.

Fishing Vessels' Medicines

THE Board of Trade has issued, after consultation with the Pharmaceutical Society of Great Britain and the British Trawlers' Federation, three new scales of medicines and surgical appliances to be used on fishing vessels. These scales, which come into force on January 1, 1928, supersede the two scales prescribed in January 1912. The full text (Notice No. 90) may be obtained from the Mercantile Marine Department of the Board of Trade. The ten formulas given are prefaced by the following note:—"The following prescriptions and directions for the labels to be affixed in respect of the medicines required to be provided by these scales are reproduced for the guidance of druggists and others." The formulas are:—

Cough Mixture

Tinct. camph. co. ... 3vj.
Vin. ipecac. ... 3iv.
Ammon. carb. ... 3j.
Syr. scillæ ... 3iv.
Aq. ... ad 3x.

Cough Mixture

Dose.—One tablespoonful in a little water every four hours. Good for coughs and colds.

Fever Mixture

Pot. nit. ... 3ij.
Liq. ammon. acet. 3v.
Spt. æther nitros. 3v.
Aq. ... ad 3x.

Fever Mixture

Dose.—One tablespoonful in water every four hours. Good for cases of feverish colds, influenza or any case where the skin is hot.

Diarrhœa Mixture

Bismuth. carb. ... 3iv.
Sod. bicarb. ... 3iv.
Tinct. zingib. ... 3iv.
Tinct. catechu ... 3j.
Aq. ... ad 3x.

Diarrhœa Mixture

Dose.—One tablespoonful every four hours. Good for diarrhœa and derangements of the bowels.

Soothing Mixture

Pot. brom. ... 3j.
Tinct. card. co. ... 3vj.
Aq. ... ad 3x.

Soothing Mixture

Dose.—One tablespoonful in a little water when required. Good for sleeplessness, irritability, over-excitement, etc.

Rheumatism Mixture

Sod. bicarb. ... 3iv.
Sod. salicyl. ... 3iv.
Syr. aurant. ... 3j.
Aq. ... ad 3x.

Rheumatism Mixture

Dose.—One tablespoonful in water every four hours. Good for rheumatism and pains in the bones and joints.

Stomach Mixture

Sod. bicarb. ... 3iv.
Ol. menth. pip. ... ʒx.
Spt. chlorof. ... 3ij.
Tinct. rhei co. ... 3j.
Infus. gent. co. ad 3x.

Stomach Mixture

Dose.—One tablespoonful every four hours. Good for indigestion, pain in the stomach, colic, etc.

Cramp or Colic Mixture

Liq. potass. ... 3ijj.
Tinct. capsic. ... 3ij.
Spt. chlorof. ... 3ij.
Spt. ammon. aromat. 3j.
Tinct. card. co. ... 3ij.
Aq. ... ad 3x.

Cramp or Colic Mixture

Dose.—One tablespoonful in a cupful of water. Good for cramp in the muscles of the stomach, legs and arms.

Gargle

Pot. chlorat. ... gr. 160
Aq. ... ad 3viij.

Gargle

Pour out a tablespoonful, add an equal quantity of water and gargle frequently.

Eye Lotion

Acid. borac. ... gr. 120
Aq. ... ad 3viij.

Not to be taken internally

Eye Lotion

Pour out a tablespoonful, add a little hot water to warm it, and bathe the eye frequently.

Eye Drops

Cocaine 0.5 per cent.; hyd. perchlor. 0.033 per cent. in castor oil.

Eye Drops

(1) With the aid of the dropper put two drops into the eye. (2) Wait five minutes. (3) Put two more drops into the eye. (4) Wait five minutes. (5) Put in two more drops. The eye should then be ready. Care must be taken that the instrument used is perfectly clean. After the removal of the foreign body bandage the eye for six hours.

We print the formulas as published.

A Ramble by the Rhône

THE original idea of this tour was to follow the River Rhône down the left bank from Lyons to the sea and to return by the right bank; but from various circumstances this scheme was not strictly adhered to. However, the main object of the trip, that of seeing the Roman antiquities and ancient Provençal cities, was achieved. Let me say at the outset that from the point of view of scenery the Rhône is to my mind, like the Rhine, greatly overrated. Leaving Lyons by the Quai Jean Jacques Rousseau, a fine reinforced concrete road leads to Givors, and thence to Vienne; the route nationale No. 7, which I followed as far as Avignon, is a splendid tarred road equal to any we have at home, and what struck me was that in spite of the summer heat and the intense southern sun the tar never became sticky, so that French roadmakers must have a better method of spreading it than we have. Vienne



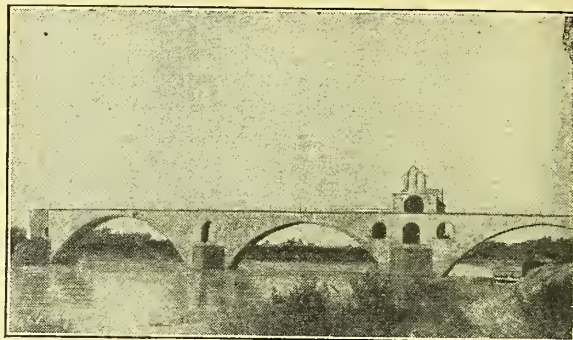
ARC DE TRIOMPHE, ORANGE

has a cathedral with a fine west front standing in a commanding position overlooking the river and bridge, but the interior is bare and uninteresting. In the public garden there was a section of Roman pavement and street laid open and left just as it was discovered. After leaving Vienne the road runs through rows of chestnut trees, and further on, one approaches the mountains; here, in several places, there had been landslides due to heavy rains. The next place was Tain, or Tain Tournon, one town being on each bank and connected by two suspension

bridges, one for foot passengers only, while the ruins of an old castle stand out on the rocks rising directly behind Tournon. At this point one begins to notice that one is in a wine country; to anyone who has never seen vines under cultivation before, the first sight must be a disillusionment, for vines cultivated for wine are grown in straight rows on poles almost exactly like hops, but shorter, generally three or four feet high.

The next town was Valence (the old Roman Valentia), with fine boulevards and squares with more views of the Alps in the new part of the town, and narrow streets of quaint houses in the old part, among them the Maison des Têtes covered with carved heads and figures. The French have a saying "C'est à Valence que le Midi commence," meaning that here one enters the sunny South; and this can be judged from the thickness of the stone walls of the houses, and the darkened windows. After Valence one sees the warning signs beside the road for the "cassais"; these are little dips for the water to run right across the road. Arriving at Montelimar it was necessary to sample the nougat for which it is famous; the midday meal was taken in the garden of the Hotel de la Poste, under the trees, with a splashing fountain to take off the heat; this hotel had a courtyard as big as a public square, and the grand staircase of stone was wide enough for half a dozen people abreast. The language

here becomes a dialect which approaches Italian; on asking one man the way to the hotel he replied "Si, si, Hotel alla Posta." On entering Orange the first object of interest is the Arch of Marius, or the Arc de Triomphe, built A.D. 21, and considered one of the finest and most complete Roman arches extant; it is in the centre of the main road, which divides to go round it. The other important sight in Orange is the Roman theatre, which retains the original back wall



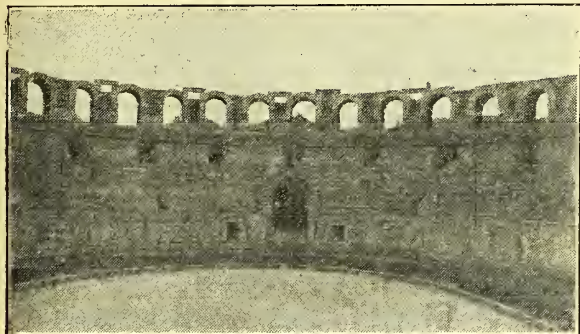
PONT SAINT BENEZET, AVIGNON

of stone, 118 feet high, 340 feet long, and 13 feet thick; it is stated to have been capable of holding 40,000 spectators—although after having seen the place I should take this figure with caution; the tiers of stone seats are intact, but the "gardien" informed me that they had been remade with the exception of a few, which he pointed out. It was here also that I had my first glimpse of bowls as played in the South, the elders playing in the evening on the town square, which was decidedly stony and with not a blade of grass; they seemed to be enjoying themselves, but I am afraid it would not have suited our pharmacist experts. Leaving the main road here I crossed the Rhône to Roquemaure, and then through rows of trees which met overhead, passed on to Villeneuve with its ancient houses and wicked pavé, and so entered Avignon by the long bridge. Turning to the left along the ramparts one comes to the Pont Saint Benezet, or Pont d'Avignon, as it is called; only four arches are left out of the original nineteen, with the ruined chapel in the middle; this bridge, dating from about A.D. 1200, gives rise to the song used as a nursery rhyme, "Sur le Pont d'Avignon l'on y danse, l'on y danse tous en rond." From Avignon to Tarascon with its twin town of Beaucaire joined by the usual suspension bridge, and thence to Arles. This is about the only town I have ever been in which defeated my sense of orientation, for the streets are the narrowest, most crooked and intricate I can remember—and, I might add, the dirtiest.

THE ATTRACTIONS OF ARLES

Among the principal objects of interest in the town of Arles is the Arena, built by the Romans in B.C. 46, and said to hold 30,000 spectators; it is now used for bull fights. The women of Arles are noted for their Grecian style of beauty, and certainly look well in their distinctive costume and caps, while many of the youths have finely cut features which must please a painter's eye. From Arles a detour was made to Les Baux, passing the Abbey of Montmajour; climbing up the Alpilles through the almond and olive trees the steep zigzag road leads into the rock village perched on the top, at one time an important town, now a "monument historique" or state-protected antiquity. Nîmes was a sharp and pleasing contrast to Arles, being a town of wide streets and gardens, and spotlessly clean; originally taken by the Romans in B.C. 121 and occupied by them for more than 500 years, it contains more remains for its size than any other city. The Arena or Roman amphitheatre, built of enormous stones so perfectly cut that although laid without cement they still remain intact after 2,000 years, is smaller than the one at Arles, but better preserved; it also is used for bull fights. From Nîmes I made my way to the Pont du Gard, all that is left of an aqueduct

twenty-five miles long, built by the Romans in B.C. 19 to take water to Nîmes; the remainder, in three tiers of arches 156 feet high, stretches from side to side of the valley, and was to my mind the most imposing sight of the whole tour. On this road I had a most interesting experience. The French have many Algerian and native troops who have been through the campaign in Morocco; they have been brought over for a rest, and I passed for two or three miles through rows and rows of them riding in single file on each side of the road, each troop headed by a French officer in horizon blue, the men being in khaki-coloured tunics and baggy trousers with a broad red waistband and turbans. Many of them had part of their turbans wound round their noses and



ROMAN ARENA, ARLES

mouths for the heat, and to keep out the dust which their horses were kicking up in clouds, and as they went by they shouted out greetings.

I next retraced my steps to Lyons; this leaving a day or two to spare, the opportunity was taken of going up the valley of the Saône and through the Côté d'Or. From Serrières to Lyons the road is lined with peach trees which were loaded with fruit; the natives must be very honest or too used to them, for I saw none being taken. Leaving Lyons by the Neuville road, which runs along the river bank, there is some good scenery, and the route taken was through Villefranche to Macon. Here the Côté d'Or proper begins, and lies on a range of hills to the west of the route nationale; these hills are covered with vineyards, and on the big signboards erected at the side turnings leading to them one reads familiar names. At the little Hotel du Sauvage, at Tournus, where I had an excellent lunch, there was a large stone trough in the courtyard covered with wire netting and filled with running water in which were swimming the fish waiting their turn for the chef. The road between Chalons and Beaune was lined with apple trees full of fruit, and the grass on each side of the road was strewn with windfalls. At Beaune the Hotel de la Poste is one of the noted "stations gastronomiques" on this route, and the déjeuner was accompanied by the wines of the district through which I had passed, drunk from glasses running up to six or eight inches in diameter. Dijon is another fine town with a beautiful avenue leading to a well-wooded park, and behind the station is a well-laid-out botanical garden.

Prices are up, but not so much as I had expected, although with the difference in the rate of exchange it certainly makes travelling dearer. This difference is not a matter of great concern to anyone on a holiday, although to the working classes it must be serious. But what came to my mind most frequently in this journey was that in each district one fed on the products which were grown in that immediate neighbourhood—in other words, they live on the land and not as we do on everybody's produce but our own, and so things are correspondingly cheaper in comparison.

INTERESTING PHARMACIES

The majority of pharmacies in this part of France are after the usual style, but I met one or two exceptions; perhaps the most interesting was the Pharmacie Coucal

at the village of Ladoix near Beaune. Situated on the main road with trees in front, under which were tables and chairs, with steps leading up to the front door, over which roses were blooming, and no shop windows, it was probably unique. But every picture has its light and shade: I had a chat with the pharmacien, who said that he did a fair business, as his was the only pharmacy for ten communes, but that all the work came late in the day, as his customers were mostly people who worked in the vineyards all day, so that he had no regular closing hour and was open every day all the year round (including fête days and Sundays). He was assisted in the shop by his wife. Another shop attracted my attention in Valence, as in the window were two specie jars with coats of arms on them, which at first sight closely resembled those of our own Society.

In a Villefranche pharmacy I noticed a shop round labelled "Eau de Vie Allemande," a name new to me, so I asked what it was, explaining that I was an English pharmacist, and found it to be a form of tincture of jalap; on paying for my purchase, the pharmacien insisted on charging cost price to a *confrère* in spite of my protest. Many pharmacies style themselves "pharmacie normale," "pharmacie principale," etc., but I ascertained that these were purely fanciful designations; one man, who had a display of trusses and elastic hosiery, went one better, and styled his premises, "Pharmacie, Bandagisterie." In Dijon I noticed a tablet on a house in the Rue Monge which stated that Bernard Courtois, the discoverer of iodine, was born there; and in the market-place at Montelimar was what I took at first to be an old-fashioned fire-engine, but a closer inspection revealed it to be a set of three stills mounted on a carriage for taking round the country districts. More and more pharmacies seem to be going in for side-lines, mostly toilet goods; but these are on sale in all kinds of shops, although predominantly in the coiffeurs', of which there are legion. In one of the big galleries or bazaars I came across a stand with two one-gallon glass barrels with taps, such as are sometimes used on dispensing counters for aqua dest., containing eau de Cologne, one 50° priced at 20 fr. a litre, and the other 70° at 24 fr. a litre. Drogueries are numerous; one in Dijon had an open front and the interior was arranged



A PHARMACY AT LADOIX

—in stands like a bazaar. The following prices I noted as interesting to compare:—

Fibre nail brushes	...	...	0.75 fr.
Shaving brushes	...	...	from 9.30 "
Clinical thermometers	...	...	15.0 "
Rouge puffs, wrapped	...	...	1.95 "
Sun-glasses	...	...	3.50 & 6.50 "
Cotton-wool, about 1lb. packet	...	...	13.50 "
Alcool de menthe, 2-oz. bottle	...	...	3.60 "

Photographic materials are mostly sold by photographic dealers and opticians, although some pharmacists stock them now; prices for developing may be judged by the rates for the popular $3\frac{1}{2} \times 2\frac{1}{2}$ size, these being 1.75 fr. for developing six exposures and 0.50 fr. each for prints, just half our scale of charges. A new spool the same size costs 8.20 fr., which is a little dearer than our 1s. 2d. One dealer had cameras on hire at 2.0 fr. an hour, 8.0 fr. the half day, and 10 fr. the whole day, with a deposit of 100 fr.—PHARMATOURA (8/8).

Pharmacopœia in Chinese

SHORTLY before this issue went to press we received from the London Chamber of Commerce a copy of the translation of the British Pharmacopœia into Chinese, a book which has been in hand, under the joint auspices of the London Chamber and the British Chamber of Commerce,

英國藥製

Acaciae Gummi
阿刺伯樹膠
Gum Acacia
由他種阿刺伯樹膠係豆科阿刺伯樹膠
Acacia Senegal, Willd. 之枝幹所滲出之膠狀物。
特性及試法 係圓或卵圓形之膠珠，成大小不一之塊質，或為參差不整，表面閃光之斷片，幾無色，或微黃，淚珠含有無數細裂，故不透明，性頗脆，其折面光滑，狀若玻璃。幾無臭氣，嘗之味淡而有粘性，不能溶解於醇 Alcohol (百分之九〇)，但幾能全溶於水。其溶液半透明，粘稠而微酸。此膠溶解於等重之水內，所成溶液不類蛋白，如續加多量之水，靜置之，無膠狀之沉渣，其水溶液（配十）窺以旋光器，略顯左旋性（表示無糊精 Dextrin 及數種糖質等）。取此溶液十坵，加以醋酸鉛之溶液 Solution of Lead Acetate 不起沉澱，若先將溶液煮沸，待涼，然後加以碘之十分一當量溶液 N/10 Solution of Iodine 。

英國藥製

PAGE ONE (REDUCED SIZE) OF THE BRITISH PHARMACOPEIA IN CHINESE

Shanghai, since 1921. The translator is Dr. C. L. Kao, a member of the Chinese Terminology Committee. Pending a more extended notice of the work, we reproduce the first page of the text. The price of the volume in London is 6s.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," August 10, 1927.)

- "MITHAYRION"; for chemicals (1), (2), (3), scientific instruments, etc. (8), surgical instruments, etc. (11), food substances (42), mineral waters, etc. (44), goods (47), perfumery, etc. (48). By E. E. Gates, Old Buckenham Hall, Old Buckenham, nr. Norwich. 479,657/658/659/664/667, 480,436/438/441/442. (Associated.)
- "ERGANIL"; for all goods (1). By I. G. Farbenindustrie Aktiengesellschaft, Mainzer Landstrasse 28, Frankfurt-on-Main, Germany. 479,427.
- "ZEBLAK"; for all goods (1). By Reckitt & Sons, Ltd., Dansom Lane, Hull. 481,708.
- "ARTESQUE"; for chemicals (2). By Aladdin Industries, Ltd., 118 Southwark Street, London, S.E.1. 482,135. (Associated.)
- "EMULSIFIED PRO-MOTOL," etc., on oblong label; for a constipation remedy (3). By Jacksons (Walkden), Ltd., 160 Bolton Road, Walkden. 477,565.
- "LAKEROL BRAND SMOKERS' PASTILLES" on label device, including letter "A" on circle, "LAKEROL BRAND COUGH BONBONS" with same device (letter "A" disclaimed), "LAKEROL BRAND VIOLET-PASTILLES" with device including violet (word "violet" disclaimed); for pastilles or tablets for the throat, etc. (3). By Aktie-

- bolaget Pastill, 28n, Skepparegatan, Gefle, Sweden. 479,614/617/616. (Associated.)
- "GLYTEX"; for a medicated cream for skin diseases (3). By E. C. Clark, 53 Greenwood Avenue, Hanwell, London, W.7. 479,649.
- "MINERALOGEN"; for medicinal mineral substances (3). By E. Solmersitz, 13 Nürnberger Platz, Berlin, W.57. 480,291.
- "PARKINSONS"; for pills (3). By S. H. Parkinson, Curzon Street Drug Mill, Burnley. 481,334. (Associated.)
- "KA-LE-FLUID"; for tonic extracts of vital glands (3). By D. Kalenitchenko, Ex Hotel Metropole, Rue Averov, Alexandria, Egypt. 481,460.
- "NEPTAL"; for medicinal chemicals (3). By Etablissements Poulenc Frères, 86-92 Rue Vieille-du-Temple, Paris. 482,137. (Associated.)
- "LANSOLAC"; for medicinal chemicals (3). By W. J. Patey, 76 New Bond Street, London, W.1. 482,197. (Associated.)
- "TEMPINO"; for medicinal chemicals (3), and for perfumery, etc. (48). By H. Temmler, Flugplatz 6, Berlin-Johannisthal, Germany. 482,234/235. (Associated.)
- "J. B. ENSIGN" ("J. B." disclaimed); for cameras (8). By Houghton-Butcher (Great Britain), Ltd., 88 High Holborn, London, W.C.1. 482,141. (Associated.)
- "CHASALLA" and "PEDISANA"; for foot arch supports (11). By G. Engelhardt & Co., Chasalla-Schuhfabrik, A.G., 10-14 Sedanstrasse, Cassel, Germany. 482,190/191. (Associated.)
- "DEURALM"; for hernia trusses (11). By J. B. Hilliard, 123 Douglas Street, Glasgow. 482,370.
- "VIGOX"; for food substances (42). By Hugon & Co., Ltd., Ogden Lane, Openshaw, Manchester. 481,830.
- "SEVEN FIRES" on label device including seven fires; for food substances (42) and for mineral waters, etc. (44). By Kia-Ora, Ltd., 35 Rushworth Street, Blackfriars, London, S.E.1. 481,367/368. (Associated.)
- "BRISLETS"; for food substances (42). By F. W. Hampshire & Co., Ltd., Silk Mill Lane, Derby. 482,179.
- "REGAL"; for mineral waters, etc. (44). By Technical Development Co., Ltd., Ock Lea, Ock Street, Abingdon, Berkshire. 482,202.
- Fantastic figure of man with large hands and arms; for toilet soap (48). By J. Kitchen & Sons Proprietary, Ltd., Corner of Ingles Street and Quinn Street, Port Melbourne, Victoria, Australia. 476,537.
- "JONALIA"; for all goods (48). By Fix Manufacturing Co., Adelphi Bank Chambers, South John Street, Liverpool. 477,040.
- "NURSE CHARLOTTE'S"; for all goods (48). By John Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E.1. 481,882.

(From "The Trade-marks Journal," August 17, 1927.)

- "LEONIL"; for chemicals (1). By I. G. Farbenindustrie Aktiengesellschaft, Mainzerlandstrasse 28, Frankfurt-on-Main, Germany. 479,362.
- "FAIRY DYES" on device of fairy; for dyes (1). By Fairy Dyes, Ltd., 61 Well Road, Glasgow. 480,974. (Associated.)
- "WINDMILL BRAND" with picture of windmill; for chemicals (1). By W. S. Merrikin, Ltd., Bankside, Sculcoates, Kingsdon-upon-Hull. 481,499. (Associated.)
- "ATROFECTANT"; for chemicals (2). By Boots' Pure Drug Co., Ltd., 37 Station Street, Nottingham. 482,216.
- "LISTER BRAND" on device of diamond shape on oblong; for disinfectants (2). By J. & W. Irvine, Ltd., 36 Charlotte Lane, Glasgow. B 477,217.
- "SEROCALCIN"; for medicinal chemicals (3). By Endocrines, Ltd., 72 Wigmore Street, London, W.1. 482,078.
- "DRAGÉES DE PEPTALMINE" with directions, etc., on label device, including letters "A" and "P" ("A" and "P" disclaimed); for medicines for the digestive organs (3). By Laboratoires des Produits Scientia, 21 Rue Chaptal, Paris. 475,091. (Associated.)
- "ASPIRMINT"; for medicines containing mint (3). By Dr. Miles Medical Co., 117 West Franklin Street, Elkhart, Indiana, U.S.A. 476,800.
- "DR-MISKA" on square shape; for medicines (3). By Ena E. Ubsdell, 16 Purley Oaks Road, Sanderstead, Surrey. 482,075.
- "LAKEROL BRAND MENT PASTILLES" on label device, including letter "A" on circle ("Ment" and letter "A" disclaimed); for throat pastilles, etc. (3). By Aktiebolaget Pastill, 28n Skepparegatan, Gefle, Sweden. 479,615. (Associated.)
- "CHARLES STAFFORD" facsimile signature; for medicinal chemicals (3). By V. S. Smith, Siviter House, Ladgate Hill, Birmingham. 482,303.
- "GNU BLOOMFLAVOUR" with picture of head of gnu ("Bloomflavour" disclaimed); for malt flour, etc. (42). By The Antelope Co., 6 Lloyd's Avenue, London, E.C.3. 481,808. (Associated.)

Births

Notices for insertion in this column must be properly authenticated.

COLLIER.—On August 21, the wife of A. D. Collier, M.P.S., Midland View Pharmacy, Oulton, Leeds, of a daughter.

MAYCOCK.—On August 17, the wife of W. R. P. Maycock, M.P.S., 69 The Broadway, Kettering, of a daughter.

Deaths

DAVIDSON.—At Manchester, on August 11, Mr. William Davidson, chemist and druggist, late of Chester. Mr. Davidson qualified in 1872.

HAYTON.—Recently, Mr. Matthew Hayton (Hayton & Co., wholesale druggists, 99 Gilesgate, Durham), aged eighty-two. Mr. Hayton, who was a native of Wigton, served his apprenticeship with the late Mr. John Burdon, chemist, Claypath, Durham, and afterwards established himself as a wholesale druggist. He leaves four sons, two of whom are in the business.

MEHTA.—At Bombay, recently, Mr. Jamnadas J. Mehta, proprietor of the firm of Jamnadas Brothers & Mehta Brothers, Bombay.

MILNE.—At his home, Gelding Grove, Nottingham, on August 18, Mr. Alexander L. Milne, aged seventy-one. Mr. Milne was formerly secretary of Boots Pure Drug Co., Ltd., and afterwards a director of an associated company.

PICKUP.—At his residence, 20 Sandringham Avenue, Rhyll, recently, after a brief illness, Mr. John Arthur Pickup, retired chemist and druggist. Mr. Pickup, who qualified in 1877, carried on business in Yorkshire Street, Bacup, for a long period, retiring seventeen years ago. He is survived by a widow.

REID.—At his residence, 5 Eglinton Gardens, Belfast, Mr. Samuel M. Reid, chemist and druggist, for many years in business in Albertbridge Road. Mr. Reid was registered in 1891. After relinquishing business on his own account he was for some time with Fred Storey, Ltd., manufacturing chemists, Belfast, and he later occupied the position of compounder at the Nervous Diseases Hospital.

SCOTT.—At his residence, Kentillo, Hamilton Road, Motherwell, recently, Mr. Thomas Scott, chemist and druggist, The Cross. Mr. Scott, who qualified in 1894, carried on business in Motherwell for more than thirty years.

SWIRE.—At Halifax, on August 13, Mr. Jabez Swire, Ph.C. (J. Swire & Sons, Ltd., chemists, 88 King Cross Road), aged eighty-one. Mr. Swire carried on business in Halifax for a long period, and formed a limited company, of which he was the head, in 1919.

Wills

MR. JOHN JONES, of 98 Claremont Road, Pendleton, Lancs, and late of 102 Cross Lane, Salford, chemist and druggist, left £11,252 15s. 4d., with net personalty £4,343 3s.

MR. PATRICK MERNAGH, B.Sc., of 31 Galveston Road, Putney, S.W., a member of the staff of the Public Analyst of the London County Council, a native of Ballyboggan, Wexford, who died on August 1 last, left estate valued at £3,143 gross, with net personalty £958.

Business Changes

MR. C. KEITH THOMAS, agent for Veolay, Paris, and Marcel Franck, Paris, has removed from 62 Frith Street to 12A Golden Square, London, W.1.

MR. G. RITCHIE, chemist and druggist, has taken over the business of Windemer, Ltd., chemists, 118 Ewell Road, Surbiton Hill, as from August 22. Statements of outstanding accounts up to and including August 20 should be sent to Mr. H. J. Bromhall, 13 Courtland Avenue, Norbury, London, S.W.16.

Personalities

MR. REGINALD W. STATHAM, L.S.A., M.R.C.S., has been elected Master of the Society of Apothecaries of London.

MR. A. WILLCOCK, Mayor of Wolverhampton, has been appointed a justice of the peace for the borough. Mr. Willcock recently retired from business as a chemist and druggist.

MR. W. E. CURTIS, chemist and druggist (G. E. Bridge & Co., Ltd., chemists), Bournemouth, recently gave an interesting address on "Surgical Appliances and Artificial Limbs" before the local rotary club.

AMONG our visitors during the week was Mr. John Feaver, Ph.C., Opunake, New Zealand, who is spending an extended holiday in this country for the first time for thirty-two years. Mr. Feaver is staying at Truro, where his family is well known.

SIR WILLIAM GLYN-JONES (as we note from the "British Columbia Pharmaceutical Record") has had to postpone, indefinitely, his meetings at Vancouver and the Pacific Coast owing to illness which overtook him after he had left the boat at Vancouver. We are glad to state that he is making steady progress aided by the ministrations of his daughter, Dr. K. Glyn-Jones, who accompanied him.

Birds in Materia Medica

REFERENCE has been made in THE CHEMIST AND DRUGGIST, from time to time, to the monographs on ancient medicine issued by Mr. Warren H. Dawson. Mr. Dawson has recently published in the "Ibis" two very interesting articles on the hoopoe and the bee-eater respectively. The birds were somewhat extensively used in classical times, and down to a comparatively late period in the Middle Ages. The hoopoe appears in some ancient papyri from Egypt. It occurs both in magical and medical prescriptions. Its blood is used as a charm, and also for smearing upon the eyes. In a papyrus in the John Rylands Library it is prescribed along with the plant artemisia; it does not exactly appear for what purpose. Probably it is connected with the "lapwing" of the Old Testament, which the Jews were ordered not to eat as being an abomination (Lev. xi, 19). In the Syriac Book of Medicines it appears, in Mr. Dawson's opinion, though this is not certain, as Solomon's bird, and is prescribed for a great number of diseases, especially perhaps for dimness of sight, scrofula, and to render a man sexually impotent. The Arabian physician, Ibn al-Beithar, devotes considerable space in his book to the medicinal virtues of the hoopoe, and he also says the bird is connected with Solomon. Used in various ways, it will cure respectively epilepsy and bewitchment, besides many other uses, partly medical, partly magical. Leméry says that its flesh is good for the colic. Classical writers have much lore to relate of the hoopoe, but they frequently confuse it with the bee-eater and the woodpecker.

Of the bee-eater (*Merops apiaster*), Mr. Dawson says it appears in Egyptian papyri both as a magical bird and in medical prescriptions. Thus, in the Kabun medical papyrus, which is the oldest of these documents and dates from the Middle Kingdom, the physician, in treating a sick patient for a female complaint, is directed, *inter alia*, to fumigate her eyes with the shanks of the legs of bee-eaters. Again, in the Ebers papyrus, in a prescription to prevent the bites of flies, fat of the bee-eater is to be used as an ointment. It occurs in Aelian, Aristotle and Pliny, not, however, for its medical uses. Aelian relates a story, echoed centuries afterwards by Conrad von Megenburg, that the bird, when its young are threatened by any enemy, protects them by placing a certain herb, the *herba meropis*, or woodpecker plant, in the way. The story occurs also in Pliny, in a somewhat different form; the bird, however, is no longer the *merops*, but the *picus*. The bird was used throughout the Middle Ages and down to the eighteenth century, if not later. Its heart was employed for cardiac, enterical and stomachic disorders, and its gall for the eyes.

Trade Notes

M. J. FECHER, LTD., Cuckoo House, Dod Street, E.14, give particulars of canstic pencils, of which they are makers.

BOTTLE-CAPPING SKINS are advertised in this issue by Leslie Gates, Hailsham, Sussex, who will send samples of Bandruche skins on application.

CLOSED FOR STOCKTAKING.—The factory and warehouse of Bourjois et Cie, Ltd., 71 and 73 Carter Lane, London, E.C.4, will be closed for stocktaking on September 1.

LOFTHOUSE & SALTNER, LTD., Hull, advertise, on another page of this issue, seed dressings of various descriptions, including (as a speciality) those packed under the chemist's own name.

REDDGRAVE, BUTLER & CO., LTD., Park Lodge, Forest Lane, London, E.15, have issued their latest catalogue of drugs and packed goods. The speciality of the firm is paraffinum liquidum, B.P., packed or in bulk.

WINDOW TICKETS AND POSTERS.—The trader who is planning his autumn display will find assistance in the new list of window tickets, showcards and posters, No. CD 996, issued by Dudley & Co., Ltd., Holloway, London, N.7.

FROTHBLOWER SHAVING SOAP.—Fripps, Ltd., toilet specialists, Bristol, advertise in this issue three toilet products which are linked in an ingenious way with the "Ancient Order of Frothblowers," striking, as they express it, "a new note in sales-aids."

"RELIANCE" RUBBERWARE.—New lists have been issued by the Reliance Rubber Co., Ltd., 212-3 Upper Thames Street, London, E.C.4, of their seamless-moulded hot-water bottles. Another featured line is the "Vital" heat-cured, seamless-moulded rubber tobacco pouch.

CUCUMEL is the name of a skin emollient supplied by Thomas Christy & Co., 4-12 Old Swan Lane, London, E.C.4. A special bonus offer is being made in connection with this preparation, and seasonal showcards for summer or winter will be sent to C. & D. subscribers on application.

LIMITED SUPPLIES.—Saville Perfumery, Ltd., Junction Laboratories, Watford, offer on another page of this issue a "big three" presentation set, consisting of perfume, powder and vanishing cream in coffret, retailing at 3s. Only limited supplies are available, and it is expected that the attractive appearance of the set will create a heavy demand.

ELECTRIC LAMPS AND BATTERIES.—The Ever Ready Co. (Great Britain), Ltd., Hercules Place, London, N.7, have recently issued a new general catalogue of their products. Profusely illustrated, the list will be of service to chemists interested in this class of business, and particularly those concerned with medical electricity and wireless apparatus.

ECLIPSE SAFETY RAZOR BLADES are an entirely British product, made in Sheffield by James Neill & Co. (Sheffield), Ltd., from crucible-cast steel, electrically hardened. Made at present in the "Gillette" style only, and packed in 5's and 10's, each blade retails at 4d. The profit margin is 33½ per cent., and a liberal supply of display matter is available for retailers.

SEED DRESSING.—Tomlinson & Hayward, Ltd., 51 Newland, Lincoln, have an announcement in this issue regarding requisites for the seed-dressing season. They make a speciality of packing, under agent's own name, genuine sulphate of copper 98-99 per cent., carbolised seed dressing, formalin, arsenic, and other products, which are in demand by the agriculturist at this time of the year.

VINOLIA PREMIER SOAP.—Details of a special offer in connection with Vinolia Premier soap will be sent to any retailer on application to Vinolia Co., Ltd., Blackfriars, London, E.C.4, as will also a striking folder (which can be used as a window bill) and other display material, thus enabling chemists to obtain their share of the increased sales resulting from the intensive advertising campaign recently inaugurated.

HOT-WATER BOTTLES.—The approach of the colder nights heralds a renewed demand for hot-water bottles. The red rubber moulded type seems to be steadily gaining in popularity in this country, and those of the Goodrich manufacture are advertised in this issue at reduced prices. Chemists can obtain supplies through druggists' sundriesmen, and H. C. North & Co., Ltd., 42 Southwark Street, London, S.E.1, are distributors to the wholesale trade.

CHEMISTS are already well acquainted with Parment, Carmarole Compound and Karmoid tablets, products manufactured by International Laboratories, 10 Phenix Place, Mount Pleasant, London, W.C.1. It is announced elsewhere in this issue that a new advertising campaign in connection with these preparations is to commence on September 1, and that 5 per cent. discount will be allowed on all six-dozen orders supplied through wholesalers or direct. Parment showcards will be sent on application.

B.P. Notes

By "Abel Scholar"

Lotio Hydrargyri Flava

The making of the official yellow lotion may result in a variation in the colour of the precipitate. An investigation of this result showed that the lime water had been made with tap water, and contained traces of sulphur compounds. The darkening of the yellow-coloured precipitate was thus due to the production of traces of mercuric sulphide. This reaction constitutes a very delicate test by comparative methods for these impurities in drinking water which are seldom sought for.

Belladonna and Hyoscyamus Extracts

Extracta belladonnæ et hyoscyami seem to cause some confusion when required in suppositories, and the question of synonyms does not tend to lighten the difficulty. The word "siccum" is applied to the present belladonna extract and one of its synonyms is ext. bell. alcoholic., which was the name given in the previous pharmacopœia to the root extract. Another synonym is extractum belladonnæ, which cannot be translated extractum belladonnæ viride, and it is doubtful if powdered leaves are an advantage in a suppository. If so, leaves could be used without such elaborate preparation as is required in making and standardising the official preparations. The official belladonna suppositories are made with liquid extract of belladonna root, and it has been shown that this formula can be greatly improved without any disadvantage to the result (C. & D., I, 1920, p. 89). With regard to extracts of hyoscyamus, a dry extract is intended, but the word siccum is omitted. The use of the word siccum applied to extracts is introduced for the dry extract of cascara sagrada and omitted in the eunonymus extract. The description, however, was used in the previous pharmacopœia. Siccum is added to the nux vomica solid extract and also that of opium, but not to those of rhubarb and strophanthus. If ever there was an extract which required the term of "siccum" it is surely that of ext. fellis bovini, which is officially called fel. bovinum purificatum.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

W/178. Atocin	B/188. Mayer's Pean
E/207. Automatic cash machines for roll films (other than Houghton-Butcher)	d'Espagne brilliant-tint
N/248. Baseca Salts	W/238. New Era india-rubber vacuum flask stoppers
A/198. Borneol isovalerian capsules	R/238. O.S. Tooth Blocks (present address)
W/158. Cellosolve	S/108. Plunkett massage rollers
G/168. Corona brand copper sulphate	M/168. Plupee nail-brushes (present address)
B/188. Depilatoire Sonoral	W/198. Queen Bess hair curlers
L/168. Dr. Abyr's Stomoxogan	W/208. Remo cleanser
S/228. Hamilton's Aloin Pills	B/198. Sola Pads
H/178. Hepworth's Foot Rot Cure	G/158. The Lewbart disinfectant (present address)

Observations and Reflections

By Xrayser III

Guesswork Pricing

is always foolish pricing, and this is especially the case where prescriptions are concerned. My sympathy is decidedly with your correspondent who had a mixture refused because a former dispenser had charged an uneconomic price (*C. & D.*, August 20, p. 267). I am curious to know what became of the mixture which "Average Care" dispensed, as an important point is raised by refusal to accept and pay for medicine which has been specially dispensed without any price being agreed in the first instance. It is not desirable in such cases that the chemist should reduce his price to what was formerly and incorrectly charged. On the other hand, materials and time will have been wasted if the mixture is retained by the chemist. Unless there should be some special reason for adjusting the price to meet the customer's views, I should feel disposed to insist that there was a contract to dispense the mixture on my usual terms, and to decline to part with the prescription until the mixture was paid for. It is more than doubtful if it would pay to proceed further in the hope of recovering the debt, but a service would be rendered to the craft if the person ordering the medicine was formally sued in such a case.

Areal Drug Costs

vary to a surprising degree, judging from the instructive figures set out in your illuminating article on the subject (*C. & D.*, August 20, p. 260), and it seems to be indicated clearly that the most important factor in driving up the cost is what may be termed the density of the industrialism in an area. This is the main reason why Manchester tops the list, but I understand that extravagance in prescribing there is another potent factor. Extravagance may take the form of ordering unnecessary or needlessly expensive medicine; but it is often shown, I am told, by undue frequency of prescribing medicines which are not necessarily costly. It would appear, however, that a sum approximating to 2s. 10½d. per insured person has sufficed until recently to meet all costs. Some new factor or factors must consequently be responsible for the anticipation that a sum of 2s. 10½d. per insured person will not prove sufficient this year. My recollection of figures published by you is that there was an enormous increase in the number of prescriptions dispensed for insured persons during the earlier months of this year. What exactly was this notable increase due to, and was it equally marked in industrial and rural areas? Further, I should like to know if it was as pronounced in such towns as Brighton and Southend as in Manchester and Oldham, or Newcastle and Portsmouth.

Mr. E. M. Holmes

has always been insistent upon the practical side of botany as a subject of pharmaceutical study. It is not surprising, therefore, to find him again advocating methods which he, as a specialist, has proved to be of value (*C. & D.*, August 20, p. 246). But it is important to recognise the fact that the plan of study he recommends is, in effect, a short cut to ready means of recognising particular plants. This is only a part of the science of botany, and represents the specialisation on the pharmaceutical side, which should follow more general study of the subject. Every pharmacist is not interested in this particular branch, and it is only a limited number who ever find it of practical business value. But it seems to me essential that all of us should be trained in the rudiments of botany, to fit us for dealing with the vegetable materia medica in a proper, workmanlike manner. We ought, therefore, to study botany in the first instance on general lines, just as it is found advantageous to study chemistry, without special pharmaceutical applications until we have mastered the rudiments. This may fairly be assumed to have been done after the Preliminary Scientific examination has been passed, and it is from this point that specialisation should naturally proceed.

Nevertheless, there is no good reason why the collection and identification of plants by the Holmes method should not be encouraged from the earliest days of apprenticeship, and I have always regretted that the really practical helps in the "Botanical Note-Book" should have been allowed to go out of print.

The Candidates

in one of the recent scholarship examinations were asked to write a letter of application for a situation "stating the usual particulars." What are "the usual particulars" current now? I fancy they are different from those of the days to which your contributor "Looking Back" (*C. & D.*, August 20, p. 247) referred. They must be of a decidedly different character from those which prevailed a hundred years ago, if we may judge from a curious little book by Dr. William Chamberlaine, of London, published in 1812. This work is entitled "Tirocinium Medicum; or a Dissertation on the Duties of Youth apprenticed to the Medical Profession." The medical apprentices of that period seem to have been a heavy responsibility. Not only is this vouched for by the fact that this well-known physician thought it incumbent upon him to send forth this book which would be sold, I should think, at 3s. or 4s.; but it is apparent from the tenor of his observations and exhortations, as well as from his list of over 260 subscribers to the volume. Chamberlaine's book was not the only one of its kind; there had appeared an earlier one, by a Leeds surgeon, Mr. James Lucas, from which Chamberlaine made a number of extracts. This was "On the Education, Character and Practice of a Surgeon-Apothecary," and it may have been published in 1801, but of this I am not certain. Mine is the second edition and bears the date of 1805.

In an Appendix

Dr. Chamberlaine gives a schedule of the questions to be asked of a young man who offers himself as an assistant, which I think will cause some of your younger readers to reflect upon the "then and now." This is the list in full:—(1) In whose employ were you last engaged? (2) How long is it since you left it? (3) How long did you live in it? (4) What was the cause of your quitting it? (5) Can you refer me to your last employer for a recommendation of you, as to honesty and all other requisite qualifications? (6) Or can you refer me to any one in town that knows anything of you? (7) What salary do you expect? (8) Can you bear confinement? (9) Are you, in general, healthy? (10) Can you be content to sleep in the shop, be ready to rise at all calls in the night, and come to my chamber to call me in case of labours or other exigencies? (11) Can you be satisfied to open and shut shop every morning and night, and do everything that is necessary to be done, where no man-servant is kept? (12) As I keep no errand boy, are you willing to carry out the medicines after making them up? (13) Would you think it a hardship to be expected to have the shop open at six in summer and seven in winter? (14) Would you think yourself ill-used, if, not having had any indulgence of going out for five or six weeks (*sic*), a labour, or some other engagement of my own, should occur to prevent my performing my promise of letting you have your holiday on the very day you asked for? (15) Have you many acquaintances or followers? Because I allow no visitors except fathers and mothers. (16) Have you it in view to attend any course of lectures, and how soon? (17) Or to go into the army or navy? (18) Will you think it a hardship to be required to replace any article broken by your own carelessness in the shop (except phials)? (19) Are you satisfied to do it, when you are now told, before our concluding the engagement, that you are to replace such things or allow yourself to be charged for such articles, to be paid for out of your salary? The queries which were to be put to the former employer are equally entertaining; for instance, it was desired to know if he was "fond of the kitchen and of the company of servants," if he "delights in keeping his shop and all utensils clean," if "he is good at dunning for bad debts," and if he is "APT TO GIVE SAUCY ANSWERS." This book throws much illumination upon the customs of our predecessors.



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Editorial Articles

Industrial Fatigue Research

THE seventh annual report of the Industrial Fatigue Research Board (Stationery Office, 9d.) raises, not for the first time, questions of great importance for employers of labour on any considerable scale. Some of these questions were touched upon in our discussion of repetitive work (*C. & D.*, 1924, I, 598), a subject helpfully opened in Report No. 26 of the Board. The annual report now before us is more comprehensive than its title implies, as among the subjects referred to are accident causation, ventilation, lighting, vocational guidance, and the acquisition of skill. Caution is the prevailing note of the report, which is one of the shortest that have appeared under the Council's auspices. It happens that its immediate predecessor, the sixth annual report, was of more than average length, and that virtually all its sections ended with a record of uncompleted investigations: the compilers of the present report felt, perhaps, that these investigations had not yet reached a sufficiently advanced stage to justify extended reference to them. The fact is that the whole subject, except for pioneer efforts carried out, here and there, at earlier dates, is novel in the form it has assumed, and probably can only tend to become more complicated until a sufficient number of separate results has been accumulated. When that stage is reached, broad and simplifying generalisations may become possible. Meanwhile, there is much in the work of the Board to interest not only the large-scale employer but also the intelligent student of such problems as those to which we have alluded. We may select for quotation from an earlier report two passages from a paper on "exceptional work curves," in which dispensing receives notice:—

The precise connection between the form of work curve and the mental state of the individual is still to be established, but there are unquestionably certain types of workers whose subjective characteristics would most probably be reflected objectively in special forms of curve. There is the person best described as over-anxious; he is sensitive to the criticisms of others and ever expectant of them, imaginative, fearful lest he should make mistakes, alive to his responsibilities; he worries about what he cannot alter and is unable to dismiss from his mind the work he has done. If a dispenser, such a person worries over his prescriptions, fears lest he has put poison in by mistake; if a secretary, he is worried in case he has incorrectly addressed an envelope, put London, for example, instead of Leamington, omitted to put Esq. after a name, left out decimal points or noughts in statistics, and sees the mistake he has not made as a clear visual image. . . .

Contrast two dispensers of similar physique, health, training and experience. A is of the anxious type described above. B is not, but takes each case as it comes along, does it to the best of her ability, and having done it, leaves it as finished; she can study it as long as it is unfinished, but then she ceases to think about it. Such a person may fall ill sometimes, but she is unlikely to have a nervous breakdown. A may be all right for a time, but should any extra pressure be exerted, or her general health be not quite so good, or another dispenser make a mistake and thereby acquire unpleasant publicity, then it does not require much insight to know that she will have a nervous breakdown. Whatever may be the precipitating cause, the real cause is to be found in her mental make-up. And yet dispensing is quite often recommended to girls on grounds dealing only with intellectual equipment; actually it is an occupation which gives every opportunity for the expression in work of anxiety conditions.

Research in vocational guidance (undertaken jointly by the Board and by the National Institute of Industrial Psychology) has included an analysis of the occupations taken up by 100 children leaving the schools in a London borough; a further investigation, comprising 600 tested

and 600 untested children, has been undertaken by the Institute with the help of a grant from the Carnegie United Kingdom Trust, and the Board itself has initiated a third experiment, on a smaller scale, at Cambridge. Enough has been written to indicate that the task to which the Board has set its hand is one of great complexity and of some delicacy, one in the execution of which either latent susceptibilities may be aroused or sympathetic co-operation secured. In one of the concluding sentences of the report, a confession is made to the effect that in results obtained under controlled conditions no allowance can be made for "the many interfering factors operating under practical conditions"; and it is recognised that "the test of general application . . . must be made in the factories themselves." The suggestion is added that small committees, representative of employers and employed, should be set up in the more important industries, "in order to discuss and submit for investigation problems affecting the human factor in industry, to consider proposals submitted by such bodies as the Board and the National Institute of Industrial Psychology, and to take steps to apply experimentally such methods as are regarded as appropriate to the industry concerned." Whether or not such discussion and experiment is best initiated by a committee may well depend on the particular circumstances of each case; but directors of large concerns are not less interested in minimising industrial fatigue than those who carry out the routine work, and a readiness to introduce modifications with that object is one of the most promising methods of ensuring efficiency.

The Outlook for Sodium Nitrate

MANY factors have contributed to the severe setback experienced by the Chilean nitrate industry during the past twelve months, foremost among them being the keen competition on the part of producers of synthetic nitrogen compounds. The latter have been assisted very considerably by the retention of the excessive export duty imposed by the Chilean Government (constituting a surcharge of £2 12s. 6d. per ton), in spite of repeated applications from nitrate producers for a reduction or an alternative scheme of taxation. While not unexpected, therefore, the complete figures for the "nitrate" year ending June 30 reveal a very unsatisfactory position. Recognition of this tendency some months ago led to definite action by the Chilean Government, who, in order to safeguard their most remunerative and stable form of revenue, decided to break the price-fixing system adopted by the Association of Chilean Nitrate Producers. But the lack of vision exhibited during the past two or three critical years was certain to meet with its reward, and the table below indicates clearly the extent to which the industry has already been damaged. The figures given represent thousands of tons, and the statistics for the last complete pre-war year, 1913-1914, are included to afford comparison with the progress that had been made up to that time:—

	Year ending June 30			
	1914	1925	1926	1927
Production	2,822	2,371	2,578	1,288
Consumption in:—				
Europe	1,929	1,048.5	831	763
United States ..	553	1,030	923	673.5
Egypt	55	121.5	161	154.5
Other countries ..	92	140	177	162
Total	2,629	2,340	2,092	1,753
Stocks on June 30 ..	1,265	1,218	1,674	1,195.5

Producers realised early in the season that whether the duty was removed or not, a price reduction at the end of the season was inevitable, and output was

consequently curtailed to such an extent that the total quantity manufactured was barely half of that manufactured in the previous year. Consumption did not fall to the same degree, however, and the extra tonnage required was met from the very large stocks carried over from the previous season, when output exceeded the demand by nearly half-a-million tons. Some impetus, too, was given to sales in Chile by the institution of a repurchase scheme, which in view of the great uncertainty existing in the general situation throughout the past six months, proved a successful stabilising factor. About 400,000 tons was disposed of under this scheme, and nearly all of it has been resold, thus relieving producers of their liability under the scheme. It is in no small measure due to this action on the part of producers that consumption did not decline to still lower levels. The very large relative reduction in the United States consumption is partly consequent upon the cotton situation, but the high price of sodium nitrate has allowed producers of ammonium sulphate and other nitrogen compounds to market all their production, leaving nitrate to bear the brunt of the unfavourable turn of events. In Egypt, also, this factor has operated to a lesser degree, but in European countries, except in one or two cases, a very appreciable fall in consumption, accompanied by a virtual clearance of stocks, has taken place solely on account of competitive conditions. And in the exceptions mentioned, the increased consumption was arrived at by selling out stocks at prices below cost in order to carry over as little material as possible into the new season, when prices will be even lower. With the reversion to free-selling, after more than eight years of control under the Producers' Association, the selling price f.a.s. Chile automatically fell to the figure quoted by the cheapest producers. Further, the elimination of the uneconomic "quota" system, under which the more expensively operated concerns were carried by the Association, eased the quotation still more. Finally, the prospect of producing at full capacity permitted the cheaply worked factories to distribute more widely the burden of overhead charges, leading to another economy. For these and other reasons prices for shipment from Chile have fallen to about £8 per ton—about £2 per ton less than last year. The market has since strengthened, however, to £8 10s., and at this price probably 45 out of the 150 factories in Chile can work at a profit, producing approximately 2,500,000 tons per year. Already sales by these producers amount to nearly 1,000,000 tons for delivery during the ensuing twelve months, and provided prices do not rise further, more business will doubtless be arranged. Nevertheless, the position is very singular, for if prices are maintained at the above level, output may over-expand, and, under the competitive selling conditions now prevailing, cause prices again to react. The outlook for producers, therefore, is still very perplexing, and it is difficult to forecast the probable level of prices in consuming markets. Current values are only nominal in the temporary shortage of supplies. The refusal of the Government even to consider the removal or reduction of the export duty before June, 1928, has driven producers to study operating costs more closely if a competitive price is to be secured, and, after the failure of the expensively staffed research laboratory to evolve a new and more economical process, individual producers are awaiting the large-scale results of the recently perfected Guggenheim system of nitrate elaboration. Certainly the producers, unhelpt by the Chilean Government, will have a hard fight to maintain their industry in face of the price policy of manufacturers of synthetic nitrogenous products. When discussing the position in this column on April 30 last, mention was made of the increasing output of "nitric-nitrogen" com-

pounds such as nitrate of lime, ammonium sulphate-nitrate, etc. Further developments along these lines are proceeding, and the German interests are placing on the market new "complete" products containing suitable proportions of the three chief plant-food elements. Manufacturing processes are changing and more economical methods being introduced, whilst agreements, almost international in character, are suggested covering raw materials, allocation of markets, sales organisations, propaganda activities, etc., all combining to reduce the prices of the synthetic compounds. In the United Kingdom, developments along these lines have occurred within the past six or eight months, and there is little doubt that eventually the British consumer will not require to buy his nitrogen in any form from abroad. From 123,000 tons before the war, the annual consumption in this country of the Chilean product has now fallen to 51,000 tons, compared with 70,500 tons in the 1925-26 season.

Sumatran Palm Oil

THE intensive and scientific cultivation of the oil palm on the east coast of Sumatra has often been referred to by both local and foreign visitors as Netherlands India's new agricultural industry, and the results achieved in the past six years fosters the belief that within ten years the production of palm oil in Sumatra will be of such magnitude that from the position of a minor export it will have reached the front rank of principal exports. It appears, judging from the latest reports from Batavia, that the difficulties encountered by the pioneers of the Sumatra oil palm industry have one by one been overcome, and no little credit is due to the scientific research work undertaken by agricultural chemists of the State Department of Agriculture working in conjunction with the experimental station at Kampong Baroe, Medan. Planters have also found makers of palm oil machinery ready to meet any suggestions for improvements in the pressing plants supplied, which means a higher recovery of the oil-contents of the fruit.

Letters Lost in the Post

It has recently been decided in the Courts that an acceptance by post of an offer of goods for sale was binding although the letter never reached the seller, because it was among a batch that was stolen by a postman. This decision does not raise any new principle of law, since it has long been established that an acceptance may be effective even if the letter in which it is contained never reaches its destination. It should be understood, however, that an acceptance by post is not valid if the person who makes the offer stipulates for acceptance by some other mode. But, as a general rule, an offer, even if it is not made by letter, may be accepted by letter in the absence of an express direction to the contrary or a previous course of dealing between the parties from which it must be inferred that acceptance must be notified in some other way. A party who relies upon a postal acceptance of an offer will have to prove that the letter was, in fact, posted if the other party denies having received it; consequently, it is prudent in the case of a contract of importance to register the letter in which the acceptance is contained. An acceptance is deemed to be effective from the moment that it is posted, upon which point the postmark will provide corroboratory evidence. A revocation of an offer, on the other hand, does not take effect until it has actually been brought to the notice of the person to whom the offer was made. Consequently, a letter of revocation does not operate until the letter is actually delivered, with the anomalous result that a letter of acceptance posted after the letter of revocation has been posted, but before it has reached its destination, will create a binding contract. As the law now stands, it is obvious that a trader who offers to buy or sell goods may be bound by a contract that he does not know exists, for the simple reason that he has not received the letter in which his offer has been accepted. A trader can, however, protect himself against this risk by stipulating that the acceptance of the offer must be actually received by him by a specified time. Moreover, even if the person who makes the offer does not stipulate for its acceptance within a stated time it is essential for the recipient of the offer, if he intends to accept it by letter, to do so within a reasonable time. What is a reasonable time depends in every case upon the particular circumstances; but there is a custom in many trades that an offer must be accepted by return of post.

New Books

Report as to the Conditions under which Medical and Dental Practitioners . . . may practise abroad. 8½ in. by 5½ in. Pp. 151. Sixth edition, 2s. 6d. Constable & Co., Ltd., 10 Orange Street, London, W.C.2. [Contains answers to eight questions circulated on behalf of the General Medical Council in about 100 countries. The results are indicated in three tables on pages 7 and 8. This is the first edition embodying the changed conditions which have arisen from the passing of the Dentists Act, 1921.]

Year-book of the British Optical Association, 7½ in. by 10 in. Pp. xix + 507. Second edition, 5s. Council of the British Optical Association, London, E.C. [Contains, in addition to lists of the officers, members and fellows, the history of the B.O.A.; a catalogue of the books in the library; regulations, syllabus and theoretical written questions at recent examinations; the balance sheet for year ended January 1927; copies of various forms and certificates; the Optical Practitioners' (Registration) Bill and specimen pages of the "British Journal of Physiological Optics."]

Rosenmund, K. W.—*Hilfsbuch zur Ausführung der qualitativen Analyse.* 8½ in. by 6 in. Pp. 90. Marks 4.20. Urban & Schwarzenberg. Berlin and Vienna. [This guide to qualitative analysis, by the director of the Pharmaceutical Department of the Chemical Institute in the University of Kiel, is intended to serve as a practical mentor to the student, by presenting the successive operations in a series of nine tables, while the reactions of the more frequently occurring acids and bases are described in separate chapters. The author deals in detail with the preliminary tests to be applied, and emphasises their importance in affording valuable hints for guidance in carrying out the actual analysis of substances by the wet process.]

Inglis, J. Gall, F.R.S.E., *The "Express" Metric Quotation Reckoner, Giving the Equivalent Price per Metre, Kilo, Tonne, etc.* 6½ in. by 3½ in. Pp. 96. 2s. 6d. Gall & Inglis, 31 Henrietta Street, London, W.C.2. [Consists of a series of pricing tables for all values and for various weights and measures, the imperial and metric equivalents being shown for all quantities. There are tables of quotations in tons, cwts., lbs., and ozs., expressed in kilos, etc.; quotations in yards, feet, and inches in metres and centimetres; gallons in litres; and other weights and measurements, lineal and square, of the same type. A long series of tables gives the prices of fabrics in metres and square metres of material from 18 to 72 inches wide. With this book a merchant or traveller can quote prices straight away, or price out a catalogue without making calculations.]

Perrot, E.—*Chaulmoogra et autres graines utilisables contre la lèpre.* 9½ in. by 6½ in. Pp. 59. Francs 15. Office National des Matières premières végétales pour la Droguerie, la Pharmacie, la Distillerie et la Parfumerie, 12 Avenue du Maine, Paris XV. [Professor Perrot first describes the results of an exhaustive botanical and pharmacognostic study of the various plants yielding seeds which contain acids of the chaulmoogric and hydnocarpic groups. This part is followed by chapters dealing with attempts at cultivating some of these plants in Brazil, Hawaii, and in the French Colonies; the toxicity of the *Flacourtiaceae*; sources of the drug and extraction of the oil; chemical composition of the oils of the chaulmoogric group, and preparation of their ethyl esters, and their uses in medicine. Several tables, as well as eight photographic reproductions of fruits of various species of this group are included. It is a masterly exposition, in which all the essential facts concerning chaulmoogra are succinctly presented.]

Hampshire, C. H., B.Sc., F.I.C., Ph.C., *Pharmacopœia of the University College Hospital.* 6 in. by 3 in. Pp. 99, interleaved, 4s. John Bale, Sons & Danielsson, Ltd., London. [In preparing this new edition twenty formulas in the last edition have been omitted and eighteen new ones added. The formulas are the special preparations of the hospital, and the book is not encumbered with B.P. articles. This has given more space for information required by students

and others who use the pharmacopœia as a reference book. One finds, for instance, lists of materials for diagnostic purposes, preparation of enemas, food value tables, directions for rearing children, prevention of bed-sores, details of urine, blood and gastric analysis, collection of pathological fluids, bacteria stains, treatment of poisoning, solubilities, incompatibilities, and B.P. doses. It is one of the best-compiled works of its kind.]

Gehes Codex der Bezeichnungen von Arzneimitteln, kosmetischen Präparaten und wichtigen technischen Produkten. 9½ in. by 6½ in. Pp. 1,136. 19s. Schwarzeck-Verlag G.m.b.H., Dresden-N6. [The increase in size of the fourth edition of this well-known dictionary of new remedies, proprietary preparations, and technical products, German as well as foreign, bears witness to the large number of remedial agents and other articles of pharmaceutical interest placed on the market during the past six years. In spite of the omission of many now discarded or defunct preparations and careful selection, over 20,000 titles are included, covering a very wide range of products. These are arranged in alphabetical order, in German, a brief description being given of the composition of each preparation, so far as it is known, or the chemical formula if available, its uses, doses, and, a point of considerable practical value, the manufacturer. Wholesalers, exporters, and chemists with an international clientèle, possessing a slight knowledge of German, will find "Gehes Codex" an exceedingly useful work to which to refer when called upon to supply unfamiliar preparations.]

Arends, G.—*Volkstümliche Namen der Arzneimittel, Drogen und Chemikalien.* 7½ in. by 5 in. Pp. 287. Marks 6.90. Verlagsbuchhandlung von Julius Springer, 23-24 Linkstrasse, Berlin, W.9. [The appearance of the tenth edition of this, to the German pharmacist indispensable, vernacular dictionary testifies to its utility. Its contents are indicated in the title, for it is a vocabulary of the popular German names, in the various dialects, of medicaments, drugs and chemical products, against each of which appears the corresponding Latin designation. The student of folk-etymology also will find much of interest in this work; apart from onomatopœic transformations, particularly in the case of drugs, the origin, or association, of many popular terms affords an interesting problem—that castor oil is meant when "Christbaumöl" = Christmas-tree oil, is asked for is perhaps explicable, but the connection between "Apothekend" = pharmacy death, or "Hexenspiritus" = witches' spirits, and camphorated soap liniment is somewhat obscure. The transformations to which Latin names of drugs and of time-honoured remedies have been subjected would alone afford ample matter for study.]

Emich, F.—*Lehrbuch der Mikrochemie.* 9½ in. by 6 in. Pp. 284. Marks 16.50. Verlag von J. F. Bergmann, Munich. [The second edition of this text-book of micro-chemistry has been completely revised and brought up to date, in consonance with the great advances made in recent years in this method of analysis. The technique of micro-chemistry is minutely described; the various operations involved, the apparatus employed and its manipulation, are very fully explained, an important point, since the method is so largely based on the determination of physical constants. The second part of the work is devoted to the practical application of micro-chemistry in analytical work, and is divided into an inorganic and an organic section. In the first, the specific micro-reactions are given in tabular form, followed by explanatory notes on certain reactions, also on the recognition, separation and determination of ions, in which several practical examples are included. In the organic section, after describing the principles of elementary analysis, the specific micro-reactions of organic bodies, including alkaloids, are given, in accordance with the systematic classification of carbon compounds. The work shows that micro-chemistry has fully established its claim as a reliable as well as eminently economical method of analysis. Copious references to original publications, as well as illustrations of apparatus, enhance its value as a practical guide, not only to the worker in the laboratory, but also to all interested in this branch of chemistry.]

Japan's Foreign Trade

THE annual return of Japan's foreign trade for 1926, which has recently been issued, shows that the total imports of merchandise were valued at 2,377,484,493 yen, compared with 2,572,657,863 yen in 1925, and 2,453,402,256 yen in 1924. Exports were valued at—2,044,727,891 yen in 1926; 2,305,589,807 yen in 1925, and 1,807,034,837 yen in 1924.

IMPORTS			
	1924	1925	1926
Seeds—			
Soya beans picul	7,107,730	7,173,454	7,021,021
Ground-nuts "	241,103	175,758	195,269
Sesame seed "	284,573	239,571	243,846
Rape and mustard seed "	669,753	752,398	1,707,914
Linseed "	170,471	152,080	120,753
Hemp seed "	189,010	190,585	314,278
Castor seed "	81,507	115,846	124,840
Cotton seed "	342,874	634,875	955,992
Tonic foods "	3,041	1,735	2,614
Oils, Fats, etc.—			
Castor oil "	14,704	5,197	-3,318
Olive oil "	1,714	2,370	2,675
Soya bean oil "	1,409	246	963
Stearin "	5,060	3,317	4,429
Olein "	4,328	3,847	7,764
Vaseline "	16,683	8,869	10,281
Paraffin wax (m.p. below 45°C.) "	79,537	63,531	74,073
(other) "	286,274	225,173	260,507
Oils, "fats, waxes per- fumed, and prepara- tions thereof "	2,464	428	1,074
Soap, perfumed "	3,731	390	779
(other) "	3,284	1,106	2,174
Perfumed waters "	2,678	508	800
Drugs, etc.—			
Liquorice "	19,968	27,053	31,227
Opium "	182	338	242
Saffron Value in 1,000 yen	12	10	7
Cinchona bark picul	20,074	8,513	10,381
Catechu and other tan- gin extracts "	81,617	82,034	106,696
Gum acacia "	12,721	9,556	16,054
Shellac "	17,256	16,391	17,216
Resin "	308,807	260,675	308,349
Other gums and gum resins "	26,762	20,073	34,449
Glue "	19,689	20,417	18,918
Chemicals—			
Boric acid "	13,365	11,296	17,240
Oxalic acid "	10,878	5,152	7,343
Tartaric "	5,855	5,069	2,771
Salicylic "	3,886	2,622	3,569
Carbolic "	18,644	18,456	15,530
Citric "	1,190	943	1,484
Cautic soda, crude "	259,056	369,225	603,470
Soda ash and natural soda "	1,981,632	2,167,815	610,570
Sodium bicarbonate "	129,044	71,054	120,734
" nitrate, crude "	673,841	633,488	1,066,368
" borate "	52,482	67,142	56,710
" bichromate "	998	14,523	20,090
" and potas- sium cyanide "	7,125	7,436	8,573
Potassium nitrate "	20,124	9,768	7,012
" sulphate "	215,304	363,296	445,971
" chlorate "	41,029	54,478	60,983
" bichromate "	13,683	6,656	5,948
" .. bromide "	1,394	452	1,983
Ammonium chloride "	44,299	18,951	51,405
" sulphate, crude "	2,806,621	3,392,386	4,933,778
" carbonate "	17,467	5,548	6,675
Calcium acetate "	147,137	164,427	136,966
Formalin "	15,239	13,073	19,886
Methyl alcohol "	12,058	10,850	9,821
Glycerin "	40,021	29,846	25,957
Milk sugar "	4,922	5,765	4,666
Acetanilide "	1,774	2,091	1,412
Phenazone kin	52,840	41,662	61,443
Santonin "	—	86	83
Quinine, hydroch., and sulphate "	14,301	15,515	12,991
Morphine hydroch. and sulphate "	1,462	1,627	85
Guaiacol carbonate "	30,717	19,645	27,073
Aniline salt "	3,083	1,017	1,623
" oil "	2,338	5,346	12,554
Other chemical products from coal tar "	—	—	—
Value in 1,000 yen	1,445	1,137	1,802
Alcoholic medicinal pps .. litre	197,765	146,513	98,515
Aromatic chemicals "	—	—	—
Value in 1,000 yen	246	95	101
All other drugs, chemicals and medicines "	11,525	11,304	15,374
All other compounds of above drugs, etc. "	2,749	2,541	2,424
Tooth powders and other prepared perfumes "	1,374	223	409
Indigo, synthetic picul	24,910	16,240	19,309

IMPORTS—continued

	1924	1925	1926
Aniline dyes "	106,567	33,982	33,148
Other coal tar dyes "	1,305	734	363
Mercury "	4,222	4,913	5,458
Bismuth "	259	418	50
Antimony "	16,152	18,110	27,384
Surgical or orthopaedic instruments. Value in 1,000 yen	1,098	788	905
Photographic instruments. Value in 1,000 yen	1,270	423	295
Copra picul	22,864	4,326	12,250

EXPORTS

	1924	1925	1926
Soya beans picul	39,401	37,066	37,164
Ground nuts "	3,005	22,319	2,731
Soy koku	13,147	14,318	15,292
Agar-agar picul	18,157	21,478	18,061
Linseed oil "	1,799	2,301	2,426
Soya bean oil "	69,485	119,659	144,266
Rape seed oil "	23,840	48,551	228,358
Cotton seed oil "	1,683	1,624	7,942
Camphor oil "	29,487	13,989	26,552
Peppermint oil "	2,965	5,284	4,792
Fish and whale oil "	284,034	252,895	330,268
Wax, vegetable "	53,169	31,462	35,966
Soap, toilet 1,000 dozen	1,794	1,678	1,464
other picul	55,059	19,803	4,816
Toilet cream "	533	693	655
Toilet water and hair oil 1,000 dozen	449	473	342
Ginseng picul	1,109	564	770
Insect flowers "	33,643	55,698	66,378
Glue "	15,776	16,753	18,337
Sulphur "	67,432	68,638	67,975
Iodine "	85	221	487
Acetic acid "	1,063	1,951	1,383
Sulphuric acid "	70,694	79,097	84,748
Copper sulphate "	520	694	715
Nitric acid "	27,794	26,239	34,135
Cautic soda "	1,334	3,603	702
Sodium sulphite "	92,493	95,032	87,782
Potassium iodide "	55	184	292
chlorate "	5,886	8,452	12,454
Bleaching powder "	45,864	42,360	43,532
Calcium carbide "	25,827	32,507	30,772
Naphthalene "	1,501	1,954	1,582
Camphor "	31,634	34,400	30,382
Menthol "	2,699	4,208	5,287
Insect powder "	4,179	4,268	4,093
Tooth powder-paste. Value in 1,000 yen	488	584	592
Toilet powder. Value in 1,000 yen	245	270	295
Other perfumery Value in 1,000 yen	816	847	955
Gauzes, wadding and band- ages. Value in 1,000 yen	558	595	466
All other drugs, chemicals and medicines. Value in 1,000 yen	7,224	8,044	5,761
Prepared medicines. Value in 1,000 yen	1,352	1,389	1,327
Coal tar dyes picul	14,360	12,743	7,912
Lead, red "	10,721	14,407	17,484
Vacuum flasks dozen	139,813	161,914	159,931
Other glass bottles and flasks 1,000 dozen	9,927	12,796	11,409
Antimony picul	1,410	1,393	1,787
Surgical instruments and parts. Value in 1,000 yen	303	422	485
Tooth-brushes gross	316,466	304,475	331,673
Nail-brushes "	8,856	10,139	13,847
Cloth-brushes "	5,003	3,515	7,611

Picul = 133½ lb. Kin, 1½ lb. Yen, 2/- (nominal)
Koku = 39.6 imperial gallon.

WILLIAM HAY, LTD., manufacturing chemists, Hull and London, inform us that the late Mr. E. D. Gravill, Ph.C., whose will was summarised in our issue of August 13, was formerly a director, but not managing director, of the company, and ceased to take an active interest in it in 1919.

MARKETS FOR PREPARED MEDICINES.—The United States Department of Commerce has issued a report on markets for "prepared medicines" for the use of American manufacturers and exporters. The monograph contains the latest statistics on imports and exports, maps and graphs. It was prepared by Mr. M. C. Bergin (chemical division) from answers to questionnaires. Practically all markets are dealt with. In a foreword it is stated that although the United States exports but 7 per cent. of its production, it is the largest exporter of prepared medicines and supplies over one-fifth of the world's import demand.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, August 25.

ALTHOUGH there is no noticeable improvement in the Mincing Lane produce markets, there has been slightly more activity in several directions, and it is possible that September will witness a further expansion of business. Among crude drugs, ergot has been the dominant feature, with a rapid and unexpected advance at very irregular prices; some descriptions of cardamoms are much dearer and the demand has been much better than for several months past. Tinnevely senna has sold more freely for bold leaf, which is becoming scarce. Matto Grosso ipecacuanha has arrived freely, and business has been done at slightly easier rates. Senega remains firm. Chillies are dearer in the absence of adequate supplies. Among the essential oils there are comparatively few changes. Cassia and clove are a shade easier, and Paraguayan petitgrain is cheaper. Coriander oil is dearer at the source. American peppermint is attracting interest, and some brands have been advanced. In the pharmaceutical chemicals group rather more inquiry is reported, with business limited to small quantities at keenly cut rates; sodium salicylate is rather cheaper from dealers' hands. Morphine and codeine and their salts have been advanced. Phenacetin is still subject to keen competition. Among the industrial chemicals the reports from all quarters indicate quiet markets, with only trifling changes in value. Oxalic acid and lead acetate are steadier. Rather more inquiry is reported for coal tar products, values throughout the section being unaltered. Cresylic acid continues active, and carbolic acid crystals have met with more demand recently. Among the fixed oils rather more activity has been noted in some items, and prices show an improving tendency. Palm oils are much brighter. English castor is dearer, and coconut oils are steady, likewise soya, linseed, turpentine, and wood oils.

Higher	Firmer	Easier	Lower
Cardamoms Castor oil (Eng.) Chillies Codeine and salts	Palm oils Wood oil	Acid oils Aspirin Caraway seed (Dutch) Cassia oil (c.i.f.)	Adrenalin Antimony (Chinese) Peppermint oil (Jp. dement.) Petitgrain oil Vanilla
Coriander oil Ergot Hen yolk Morphine and salts	Steadier	Clove oil Formaldehyde Ipecacuanha (Matto Grosso) Shellac Sodium salicylate	
	Benzols Lead acetate Oxalic acid Soya oil		

Crude Drugs, etc.

ALOES.—The exports from the Union of South Africa during April 1927 amounted to 94,741 lb., valued at £691, against 6,098 lb., valued at £45 in April 1926; for the four months ending April the exports were 260,707 lb. (£1,806), against 352,974 lb. (£2,667) for the corresponding period of 1926.

ANTIMONY is irregular at from £47 to £50 per ton on the spot. Shippers are somewhat firmer and holding out for at least £46 10s. c.i.f. for near shipment. English regulus is £65 to £70, but some of the refiners are sellers at about £63 and less. Chinese crude for shipment is £55, and about £37 on the spot.

BALSAM CANADA.—There have been several arrivals recently and spot sellers quote 5s. 10½d. to 6s. 2d. per lb. for good bright.

BUCHU.—The exports from the Union of South Africa during April 1927 amounted to 17,833 lb. (£836), against 31,229 lb. in April 1926; for the four months ending April 30, 1927, the shipments were 70,745 lb. (£2,980), against 76,418 lb. (£3,662) for the corresponding period of 1926.

CADMIUM is steady, and sales of Australian are being made at 1s. 10d. per lb.

CARAWAY SEED is slightly easier, new crop Dutch offering for September shipment at about 32s. 6d. per cwt. c.i.f.

CARDAMOMS have been in much better demand. Green, Alleppy, which were recently selling at 2s. 4d. to 2s. 5d. per lb. c.i.f., are now 3s. 6d. per lb. c.i.f. Spot is 4d. dearer at 3s. 6d. Bombay decorticated seed is worth 4s. 3d.

CHILLIES.—Owing to scarcity, higher prices are asked up to 160s. per cwt. being quoted for Sierra Leone. Zanzibar and Mombasa are nominal.

CLOVES.—Zanzibar remains quiet, spot offering at 8d. per lb. September-November shipment is 7½d., and October-December 7½d. per lb. c.i.f. The landings in London during the week ending August 20 were 100, and the deliveries 143, leaving a stock of 12,184, against 11,458 in 1926 and 10,434 bales in 1925. From January 1 to August 20 the landings were 15,258, against 9,759 in 1926, and the deliveries 10,677, against 12,501 in 1926.

COCOA BUTTER.—Prime English is steady at 1s. 8½d. per lb. for C.F.R., and other makes 1s. 8½d., in not less than one-ton lots.

COD-LIVER OIL is steady, and a fair amount of interest is still shown on account of the lower prices prevailing. When the autumn demand sets in, however, a stiffening is expected.

BERGEN, August 16.—The expected demand from abroad is still delayed, in consequence of which the price has declined. The official quotation to-day is reduced to 174s. per barrel c.i.f. London for finest non-freezing steam-refined quality. The market is dull.

CORN PRODUCTS, ETC.—Guaranteed water-white *glucose* (corn syrup) is quoted at 21s. per cwt. for prompt and August-September delivery, ex store, London, duty paid. Dutch *maize starch powder* (cornflour) is 14s. 6d. per cwt. on the spot. American, for August delivery, is 14s. 9d. per cwt. net, ex store, London. Pearl starch is 14s. 3d. per cwt. for August delivery, ex store, London. Dutch *maize starch crystals* is 19s. 6d. on the spot, and American for August delivery is 19s. per cwt., ex store, London. Dutch *dextrin* is 22s. per cwt. for superior. American canary for August delivery is 18s. 3d. White, 18s. per cwt., ex store, London, for August. Dutch *farina* is 17s. 6d. per cwt. on the spot, and 16s. 6d. per cwt. f.o.b. for prompt shipment.

DAMIANA LEAVES are quoted at 1s. 4d. per lb. on the spot and to arrive.

ERGOT has been in much more active demand at rising prices. Quotations are, however, very irregular to arrive, and in the absence of firm offers are now nominal, Russian being quoted at the close at 3s. per lb. c.i.f. for prompt shipment from the Continent, and Spanish at 3s. 6d. c.i.f. and even 4s. 6d., but buyers hesitate to pay these prices. Spot sales of Russian have been made at 2s. 4d. to 2s. 7d. per lb. during the past fortnight, but 2s. 8d. to 2s. 9d. appears to be current values. Dealers had allowed their stocks to dwindle, and the consequence is that little now exists on the spot, it being difficult to obtain a price.

GINGER is steady; washed rough Cochin is 50s. per cwt.; Calicut, 52s. 6d.; Cochin B cut, 125s., and C 85s.; West African is firmer at 39s.; small Jamaica is 90s., and bold 110s. to 130s.

GLYCERIN.—Continental competition for three or four months past has been much keener than before, and although the official prices of British makers are unaltered, there is a certain amount of elasticity about the market.

HEN YOLK is dearer, Chinese dried offering on the spot at 2s., afloat has been sold at 1s. 9½d. per lb. and buyers, and August-September shipment at 1s. 10d. per lb. c.i.f. Prime hen egg albumen is 2s. 9d. on the spot, and 2s. 8d. per lb. c.i.f. for August-September shipment.

IPECACUANHA.—Spot sales of sound Matto Grosso have been made at 17s. 6d. per lb. The "Leighton" from Monte Video has brought 75 bales to London.

KOLA.—A few arrivals have taken place from the West Indies and Ceylon—the first for some time past. Good bright Ceylon and West Indian are offered at 4d., and African quarters at 5d. to 5½d. per lb.

LOBELIA HERB.—New crop is quoted at 9d. per lb. c.i.f.; spot value is 3s. 3d. to 3s. 6d.

MAGNESIUM.—There is a fair demand on the basis of 3s. 9d. to 4s. 3d. for small ingots and sticks, and powder is about 4s. 9d. up to 6s. per lb., according to quality and quantity.

MENTHOL is steady at 16s. per lb. for Kobayashi-Suzuki or the spot. Forward positions are inactive, January-March offering at 14s. 9d. per lb. c.i.f.

MERCURY.—Although there is little change the undertone is firm at £21 15s. to £22 per bottle. We understand that a line of about 500 bottles was just lately sold through London, delivery ex stock in New York, on the basis of about \$123 to \$124. The American demand has been somewhat more active lately. Stocks in this market are firmly held, despite the absence of any special demand. No reliable news has yet come through in

regard to the forthcoming Spanish tenders, and in the meantime it is interesting to note that Italian producers are asking inflated terms on the basis of about £21 10s. f.o.b. Leghorn, which is too high to interest importers.

OPIMUM.—At the moment London spot stocks are practically negligible, and usual 11 per cent. Turkey druggists' cannot be bought under 2s. 5d. per unit. Easier prices are, however, looked for later. The following report has been received from Turkey:—

CONSTANTINOPLE, August 15.—During the past fortnight arrivals consisted of 818 cases druggists', 87 cases "softs," and 83 cases Malatia. The stocks amounted to: Druggists', 1,033 cases; "softs," 146 cases; Malatia, 141 cases. The corresponding stocks last year were 670, 41, and 189 respectively. Sales included 29 cases druggists' at £T32½ to £T33, 4 cases Malatia at £T31½ to £T32½, and 19 cases "softs" and druggists' have been sold to speculators at £T33 to £T36½. Business has been quiet for a fortnight, with speculators disinclined to operate. However, it is unwise to risk offering a price below £T35 for any quantity testing below 10.30 to 10.40 per cent. Arrivals are steady for this time of the year, here and at Smyrna. Sales made two months ago to speculators here from Smyrna for delivery have been delivered and accepted. Operators are making for the moment profits of 15 to 20 per cent.

The August issue of the Journal of the British Chamber of Commerce in Turkey report that there has been no export demand for some time past. Dealers in Constantinople, however, are so convinced that the crop is small, and that consumers will have to buy ere long at prices dictated by this side that they have been acting up to their opinion, and by buying steadily have forced up price of new crop from £25 to £35. Meantime, both American and European buyers are filling their requirements in Salonica and Bulgaria, where prices for some time ruled at much below level here. Buyers have as a natural result obtained all their immediate requirements from those centres. Meanwhile stocks are accumulating here, as new crop is coming in comparatively freely. There are about 1,150 cases in Constantinople, against about 850 last year at this season, and over and above this some 500 cases in Smyrna. As regards crop, people here talk of a total yield of 2,000 to 2,500 cases, but everything points to 3,500 cases.

PEPPER is quiet; fair black Singapore is 1s. 4½d. per lb. on the spot; to arrive, August-October shipment has been sold at 1s. 3½d. to 1s. 3¾d., and October-December at 1s. 3¾d. to 1s. 4d. c.i.f. Lampong is 1s. 6d. spot; August-October has been sold at 1s. 4¾d. to 1s. 5d. c.i.f. Tellicherry is 1s. 5½d., and Alleppey 1s. 5½d. spot. White Muntok is firm at 2s. 3d. per lb. on the spot; to arrive August-October shipment has been sold at 2s. 1¾d. to 2s. 2½d., and October-December at 2s. 1¾d. to 2s. 3d. c.i.f.

PIMENTO is steady at 9d. per lb. on the spot, and for August-October shipment 6½s. 6d. c.i.f. has been paid.

RUBBER.—The market has now relapsed into its former state of quietness, and prices have fallen about ¼d. per lb. since our last report. The official estimate of the balance of unused export credits, in respect of Malaya carried forward at the end of July, gives a total of 12,656 tons, which compares with 23,735 tons at the end of June, and 40,529 tons at the end of May—an appreciable reduction. Further exports from the restriction area for July were 13,894 tons, in contrast with 17,045 tons and 21,512 tons respectively for the two preceding months. Thus, the effect of the reduced quota is being felt to an increasing degree, and the time should not be far distant when home stocks begin to reflect the decline. There was a further increase in stocks last week of 235 tons, and the London stock now stands at 64,842 tons, against 29,678 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and September, 1s. 5¾d.; October-December, 1s. 5¾d.; January-March, 1s. 6½d. per lb.

SAFFRON is very firm on the spot for Valencia at from 60s. to 70s. per lb. as to quality.

SEEDS.—The market remains much in the same condition as last week, with prices in most cases unchanged. **ANISE.**—Spanish is 49s., and Russian 28s. per cwt. **CANARY** shows no demand; Mazagan is 16s. spot; and 15s. c.i.f. is quoted forward; Saffi is 15s. 3d. spot. **CUMIN.**—Maltese is 50s. to 55s. spot, and 47s. 6d. c.i.f. is quoted forward; Morocco is 47s. 6d. to 50s. spot, and 45s. c.i.f. **CORIANDER** remains about the same at 37s. 6d. spot and 34s. 6d. c.i.f. for forward shipment. **FENUGREEK.**—Business has been done at 14s. 6d. spot, and 13s. 6d. c.i.f. is quoted for forward shipment. **HEMP.**—Manchurian is 14s. to 15s. **LINSEED.**—Mazagan is 19s. spot and 17s. 9d. c.i.f. for shipment. **MUSTARD.**—English is 30s. per cwt.

SENEGA.—Spot prices remain at from 4s. 9d. to 4s. 10½d. per lb.; isolated sales have been made at slightly less, but they would be difficult to repeat.

SENNA.—There is still a good inquiry for Tinnevely leaf, and No. 1 green has been selling freely, good quality being worth up to 7½d. per lb.

SHELLAC is easier, usual standard TN orange quality offering on the spot at 240s. per cwt.; fine orange is 270s. to 330s., pure button 300s., and AC cakey 220s. to 330s. To arrive TN for September-October and October-November shipment is quoted at 232s. 6d. c.i.f. Sales for delivery

include October at 241s. to 239s. to 242s., and December 237s. to 237s. to 240s. to 239s. 6d.

VANILLA.—Recently the demand has been slow, and prices have declined. Offers from France have been made this week of Bourbon firsts 6 to 7 in. at about 9s. 6d. to 10s. per lb., delivered, and isolated spot sales have been made around these figures.

Essential Oils

THERE is more inquiry and a moderate business is passing, with price changes few and unimportant. Quotations for new crop American peppermint are rather irregular, but tending higher, with sales around the recent lowest quotation. Paraguayan petitgrain is cheaper; cassia and clove are on the easy side. Coriander is dearer at the primary market. Japanese peppermint is cheaper.

ANISE (STAR).—"Red Ship" is dull and unchanged on the spot at 2s. 6d. to 2s. 7d. per lb. Higher quotations are made in some directions for forward shipment at 2s. 5½d. to 2s. 5½d. c.i.f., and over, but 2s. 4½d. c.i.f. is still current without attracting business.

BERGAMOT.—A fair inquiry has been noted during the week with moderate sales. Values remain unchanged at about 25s. 3d. to 26s. 3d. per lb., on the spot or c.i.f. to arrive.

BIRCH, SWEET.—Spot is quoted at 8s. 6d. to 9s. per lb. for genuine American.

CARAWAY.—Dutch double rectified is steady but quiet at from 6s. 6d. to 6s. 9d. per lb.

CASSIA.—Business would probably be done at 5s. 9d. per lb. c.i.f. to arrive in some directions, but higher prices are still current. On the spot 6s. 9d. to 7s. is asked.

CITRONELLA.—Ceylon on the spot is steady at 1s. 4½d. per lb., and for shipment 1s. 3½d. c.i.f. Java oil is unchanged at 1s. 8½d. spot and 1s. 7½d. c.i.f.

CLOVE.—English distilled B.P. oil is on the easy side at from 5s. 6d. per lb. down to 5s. for quantity.

CORIANDER.—Spot supplies are fairly plentiful at from 23s. to 30s. per lb., but prices from primary source are much higher at the equivalent of 35s. or over.

DILL.—B.P. oil is quoted on the spot at 9s. 6d. to 10s. per lb.

EUCALYPTUS.—Sales of 80 to 85 cineole have been made at 2s. 3d. Usual 70 to 75 is 1s. 11½d. to 2s.

GERANIUM.—Business has been passing in Bourbon, which is unchanged at about 165 fr. per kilo (= 12s. 1d. per lb. approximately) c.i.f. to arrive, and on the spot at 12s. 6d. to 12s. 9d. Algerian is 11s. 6d. to 11s. 9d.

JUNIPER BERRY.—B.P. oil on the spot is unchanged at from 8s. 9d. to 9s. per lb.

LAVENDER.—French oil, 38 to 40 per cent. esters, new crop should be worth about 19s. to 19s. 6d. per lb., based on the lower level of quotations at the source. There are fair spot supplies of old crop offering at 18s. 6d. to 19s.

LEMON continues firm at from 7s. to 7s. 3d. per lb. on the spot. Despite the fact that the lira has been practically stabilised, c.i.f. quotations show a marked variation, in which it is at present difficult to account.

LEMONGRASS.—Cochin is unchanged at 3s. 4¾d. to 3s. 5d. per lb. in large drums on the spot, and 3s. 3¾d. to 3s. 4d. c.i.f. to arrive.

ORANGE.—Sicilian sweet is quoted at from 10s. to 10s. 3d. per lb. on the spot. Bitter is 10s. 4d.

PATCHOULI.—Business has been passing in usual quality Penang oil, which is quoted at 34s. to 35s. per lb., or a shade less for quantity.

PENNYROYAL.—Spanish on the spot is unchanged at from 4s. 6d. to 4s. 9d. per lb.

PEPPERMINT.—Rather more business has been reported in Japanese Kobayashi-Suzuki dementholised in "afloat" with sales reported at 7s. per lb.; buyers of July-August, October-December, 7s., and January-March 6s. 10½d. c.i.f. Spot is 7s. 6d. to 7s. 7½d. American natural tin oil is dearer for some brands at 15s. 6d. c.i.f. but 15s. 6d. to 14s. 6d. is still current, and sales of October-December have been made recently at 14s. c.i.f. Some of the early deliveries of new oil have been found of poor quality, the menthol content being below the requirements of the U.S.P. According to advices from Indiana it is reported that the production in that State is likely to be 100,000 lb. in excess of last year's crop, which was approximately 518,000 lb.

PETITGRAIN.—Paraguayan is rather easier on the spot at 6s. 3d. to 6s. 6d. per lb.

ROSEMARY.—Spanish oil is steady on the spot at from 2s. 2d. to 2s. 3d. per lb. New crop is quoted for shipment at 2s. c.i.f. to arrive.

SANDALWOOD.—The official quotations for East Indian oil, B.P., are as follow:—25 lb. or less, 26s. 6d. per lb.; one case, 25s. 6d.; five cases in single-case lots, 25s.; five cases in one delivery, 24s. 6d.; 30 cases in two deliveries, 24s.; 80 cases in two deliveries, 23s.

SPIKE.—Spanish oil is selling on the spot at from 3s. 7d. to 3s. 9d. per lb. in bulk for finest grades.

THYME.—Spanish red, 30 per cent., is selling on the spot at from 3s. 7d. to 3s. 9d. per lb.

VETIVER.—Bourbon on the spot is quoted at 25s. to 30s. per lb.

The following arrivals have taken place from the countries indicated during the period August 17 to 24 (inclusive): Bay (B.W.I.), 12 cs.; bergamot (It.), 54 cs.; camphor (Ger.), 5 dm.; copaiba (U.S.), 5 cs.; citronella (Cey.) 3 dm., (Jv.) 8 dm.; eucalyptus (Aust.), 80 cs.; geranium (Fr.), 1 cs.; lavender (Fr.), 4 cs.; lemon (It.), 26 cs.; lime (B.W.I.), 6 cs., 43 x ½ cs., 2 dm.; palmarosa (Br. Ind.), 5 pots; patchouli (Straits), 11 cs.; peppermint (Ch.), 34 cs.; rosemary (Sp.), 2 dm.; spearmint (U.S.), 2 cs.; undescribed (Sp.), 14 dm.

Pharmaceutical Chemicals, etc.

THERE appears to have been a little more life in this section, with business limited to small quantities. Citric and tartaric acids are weakening on neglected markets. Competition is severe in most products.

ACETANILIDE continues dull, with dealers offering B.P. crystals and powder at about 1s. 6d. per lb.

ADRENALIN.—Synthetic is offered at from 3s. 10d. to 4s. per gram, and pure at about 4s.

AMIDOPYRIN remains with dealers offering small parcels at 8s. 6d. per lb.

AMMON. BENZOATE is steady at from 3s. 3d. to 3s. 6d. per lb., for quantities.

ASPIRIN.—Prices vary a good deal according to make and grade. The market is perhaps rather easier, with quotations running from 2s. 3½d. to 2s. 5d. per lb.; business has been limited.

BARBITONE remains dull, with dealers offering at about 5s. 9d. per lb.

BENZOIC ACID (B.P.) shows no change, with business much quieter: ex works, in quantities, from 2s. 1d.; smaller lots, up to 2s. 2d. Continental, p.f.f.c., 3s. per lb., spot.

BROMIDES.—Isolated cheap offers for quantities are reported, but generally the market is unchanged: dealers quote ammonium, 2s. 1d.; potassium, B.P. crystals, 1s. 9d.; granular, 1s. 8½d.; sodium, B.P., 1s. 10½d. to 1s. 11d. British makers' prices: ammonium, about 2s. 3d.; potassium, from 1s. 10d.; sodium, from 2s. 1d. per lb.

CALCIUM LACTATE continues steady, with dealers offering one-cwt. lots at 1s. 2d. per lb.

CHLORAL HYDRATE.—Spot prices of duty-paid crystals are about level with last week's quotation of 3s. 4d. to 3s. 6d. per lb. The market may gradually move back to former rates as supplies become normal.

CITRIC ACID (B.P. crystals).—There is still but very little business moving, and buyers would have no difficulty in obtaining foreign from secondhands at 1s. 6½d. to 1s. 6¾d. per lb., less 5 per cent. Forward quotations from the Continent continue at higher rates, but no interest is shown.

CODEINE SALTS.—The makers on August 22 announced an advance owing to higher cost of raw material. They now quote as follows:—

	List price	25 oz. assorted	100 oz. assorted contracts	250 oz. assorted contracts
Codeine:				
alkaloid crystals	19/-	18/9	18/6	18/-
precip.	17/-	16/9	15/6	16/-
hydrochloride	14/3	14/-	13/9	13/6
sulphate				
phosphate				

CREOSOTE (B.P.) shows no change, with prices for quantities in demi-johns at 1s. 8½d. to 1s. 9d. per lb.; market is quiet.

CREOSOTE CARBONATE shows little life: dealers are offering at about 5s. 9d. per lb.; small parcels, 6s.

GUAIACOL CARBONATE is unsteady at about 4s. 9d. per lb.

HEXAMINE continues unsettled, with competition very keen, and some cheap offers about: quoted from 2s. 3d. to 2s. 5d. per lb., as to quantity and grade of material.

HYDROQUINONE has met with a fair business at about 2s. 11d. to 3s. 1d. per lb.; slightly more for small parcels is asked.

LACTIC ACID (B.P.) is mentioned at the unchanged rate of 2s. 6d. per lb. and upwards; technical pale, 50 per cent. by weight, £43 per ton, spot.

MENTHOL (SYNTHETIC).—Detached crystals are quoted from 9s. 6d. to 12s. 9d. per lb., according to quantity.

METHYL SALICYLATE (B.P.) remains dull, with offers of quantities at 1s. 6d. to 1s. 6½d. per lb.

METHYL SULPHONAL meets with only a limited sale, with isolated offers at 9s. 6d.; small parcels, 9s. 9d. per lb.

METOL is quoted in 7-lb. to 14-lb. lots at 12s. to 11s. per lb.

MORPHINE SALTS.—The makers on August 22 announced an advance owing to increased cost of raw material. They now quote:—

	List price	For 25 oz. assorted	For 100 oz. assorted contracts over 3 months	For 250 oz. assorted contracts over 6 months
Morphine:				
alkaloid precip.	17/3	16/11	16/7	16/3
bromide				
meconate				
tartrate (neutral)				
acetate	13/9	13/6	13/3	13/-
hydrochloride powder				
sulphate				
Crystals 3d. per oz. more.				
Morphine diacetyl	19/-	18/9	18/6	18/-
Morphine diacetyl hydrochloride	18/-	17/9	17/6	17/-
Morphine ethyl hydrochloride	20/-	19/9	19/6	19/-

PARAFORMALDEHYDE (100 per cent. powder) continues to be quoted at 1s. 8d. per lb., for quantities in kegs; small parcels, 1s. 8½d. per lb.

PARALDEHYDE is dull at from 1s. 1d. to 1s. 2½d. per lb., according to quantity and packing.

PHENACETIN is not showing much life, while prices are very keen in the region of 2s. 7d. to 2s. 8d. per lb., for quantities.

PHENAZONE has been quiet most of the week, with only a small business moving; quotations are at about 4s. 3d., and less for quantity.

PHENOLPHTHALEIN is unchanged on dealers' quotations: half-ton lots, 6s. 6d.; two-cwt., 6s. 8d.; small parcels, 6s. 10d. per lb.

POTASSIUM PERMANGANATE (B.P.) meets with little demand: dealers' prices unchanged at 6½d. per lb., in drums.

RESORCIN is available down to 3s. 9d. per lb., with business poor.

SALICYLIC ACID (B.P.) is quiet and uninteresting, with offers of quantities at about 1s. 3d. to 1s. 3½d. per lb.

SALOL is steady on a quiet market: crystals, 2s. 3½d. to 2s. 3¾d. per lb., and 1½d. more for powder.

SODIUM BENZOATE (B.P.) has been quieter of late, but prices are steady at 1s. 7½d. per lb., for quantities in barrels.

SODIUM DIETHYLBARBITURATE is neglected at about 8s. per lb.

SODIUM SALICYLATE (B.P.) is easier, dealers offering B.P. crystals in cwt. lots at 1s. 8½d., and powder at 1s. 8d. per lb.

TARTAR EMETIC.—B.P. crystals or powder is quoted at from 2s. 1d. to 2s. 2d. per lb.

TARTARIC ACID has been practically idle during the past week, and spot holders' quotations remain easy at 1s. 3d. per lb. for foreign crystals.

TERPIN HYDRATE remains dull at from 1s. 6d. per lb.

THYMOL.—There is nothing to add to our remarks of last week, while business remains slow and small; synthetic is 10s. 3d. to 10s. 6d. per lb. for fine white crystals; ex ajowan seed nominal.

VANILLIN (100 per cent. from cloves) remains very quiet: dealers quoting at about 17s. per lb.

Industrial Chemicals, etc.

London, August 24.

GENERALLY quiet markets are reported from all quarters, while the tone is steady. There is little change of importance to record.

ACETIC ACID shows no change on a quiet market: 80 per cent. technical and 80 per cent. pure, £37 per ton, in barrels, glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demi-johns; glacial, in barrels, £56 per ton, ex store.

ACETONE has been dull during the past few weeks, but prices are steady at £58 to £61 per ton for B.G.S. in drums, ex store.

AMMONIA (ANHYDROUS) is quoted at 1s. per lb. for spot 99.95 per cent., but business of any size would be at a lower figure. Contracts are much cheaper prices.

AMMONIUM CHLORIDE shows no change, with the market quiet: grey galvanising, £22 per ton, in casks, ex store; cheaper for contracts.

ARSENIC is exceedingly firm owing to the dearth of stock available at the Cornish mines. Agents at this end are asking £17 to £17 10s. f.o.r., and a more active demand is coming forward. So far as can be gathered, Grecian

producers are now open to do business, but the terms wanted in that direction have not as yet been disclosed.

BARIUM CHLORIDE remains quiet on spot, with parcels of 98 to 100 per cent. prime white crystals about £3 12s. 6d.; quantities to come forward at cheaper prices.

COPPER SULPHATE has been in steady demand, and the market is firm, with makers asking about £24 15s. up to £25 10s. per ton, f.o.b., according to brand. Total U.K. exports for the seven months were 33,731 tons, compared with 33,340 tons the same period last year.

CREAM OF TARTAR.—Following on the reduction in price notified last week the market is still unsteady and easy at about 95s. per cwt., less 2½ per cent., with business unimportant.

FORMALDEHYDE is about steady but dull: 40 per cent. by volume is £39 per ton, ex store.

FORMIC ACID has shown more life, and prices for 85 per cent., in carboys, are steady from about £45 15s. per ton, ex store.

GLAUBER'S SALT remains quiet, with quoted values unchanged: spot, commercial quality, in single bags, £3 12s. 6d. per ton, ex store; cheaper prices for quantities to come forward.

LEAD PRODUCTS.—Lead acetate is steadier, with occasional business on the market: brown, £40 10s.; white, £42 7s. 6d. per ton, in casks, ex store; red lead, imported, £29 10s., c.i.f. London: white lead, imported, dry, £28 18s. 6d.; ground in oil, £30 8s. 6d., c.i.f. London.

OXALIC ACID is steadier, and there is more inquiry: quoted on spot at about 3d. per lb., and 3½d. for small parcels.

POTASH CAUSTIC is unchanged, with business slow: 88 to 32 per cent. solid, £30 10s. per ton, in drums, ex store; 15 tons or more, £23 15s., c.i.f. U.K. port.

POTASSIUM CARBONATE has been very quiet again, but prices are steady: 90 to 92 per cent., £25; 96 to 98 per cent., £27 per ton, in casks, ex store; cheaper for contracts.

POTASSIUM CHLORATE is offering on spot in small parcels at about 3d. per lb., ex store; quantities to arrive at about 2½d. per lb.

POTASSIUM PERMANGANATE meets with a small business at the unchanged price of 5½d. per lb., in two-cwt. drums, ex store.

POTASSIUM PRUSSIAN continues steady, but business is still very poor: yellow, 6½d. per lb., for quantities, in casks, ex store.

SAL AMMONIAC is quiet: dog-tooth crystals, £29; medium, £23; fine white crystals, £19 per ton, in casks, ex store; cheaper prices for contracts.

SALTCAKE is neglected, and values are nominal: home trade, £3 7s. 6d. per ton, in bulk, delivered.

SODIUM ACETATE has been in good demand, and prices are firm at £13 5s. per ton, in casks, ex store.

SODIUM CHLORATE remains dull, with small parcels at about 3d. per lb.; quantities to arrive at 2½d. per lb., ex wharf.

SODIUM HYPOSULPHITE is level on the week, with dealers doing fair business: pea crystals, in one-cwt. kegs, £15 2s. 6d. to £15 7s. 6d.; commercial quality, in casks, £9 5s. to £9 10s. per ton, in casks, ex store. British makers' price for pure crystals to home consumers on contract, £15 5s. per ton, carriage paid to buyer's station.

SODIUM NITRATE remains very quiet, with only small business in London: 95 per cent., about £12; 96 per cent. refined, about £12 7s. 6d. per ton, f.o.r. docks, London.

SODIUM NITRITE is steady, with a small business moving: 100 per cent. basis, £19 10s. ton, and 20s. 9d. cwt., docks, London.

SODIUM PRUSSIAN is very quiet, but dealers' prices are steady at 4½d. per lb., in casks, ex store.

SULPHUR.—There is a steady business doing both in crude and refined. The former is quoted £5 5s. to £6 7s. 6d. per ton, and Sicilian flowers £13 7s. 6d.; roll, £10 15s. per ton, all c.i.f. to arrive.

COAL TAR PRODUCTS, ETC.—Pitch has been quieter this week, but prices are maintained. Carbolic acid and cresylic acid continue steady. Rather more demand has been shown during the past week. **ANILINE OIL** is steady and unchanged at 8d. per lb., in loaned drums, carriage paid. **ANILINE SALT** is offering at about 8d. per lb., packages extra, carriage paid. **BETANAPHTHOL** is steady at 1s. 0½d. per lb., carriage paid. **TOLUOL** remains quiet: commercial 90's, 1s. 2d.; pure, 1s. 9½d. per gallon, at works. **XYLOL** is unsteady on a slow market: pure, about 2s. 4d.; commercial, about 1s. 10d. per gallon, at works. **CARBOLIC ACID** crystals show no change, with a fair amount of business being done; sales have been made at 8½d. to 8½d. per lb. f.o.b., in drums, with over-casks, for substantial export quantities. Crude carbolic 60's is quoted at from 2s. 4½d. to 2s. 8d. per gallon. **CRESYLIC ACID** continues very active, with supplies scarce, especially on the Continent: 2s. 6d. per gallon naked is being

obtained for ordinary standard pale quality. A feature of the position is the number of inquiries on this market for D.A.B. V. and D.A.B. IV. cresylic acid, usually filled in in Germany. Prices of 2s. 10d. to 3s. 6d. per gallon naked are being paid for such qualities. **NAPHTHALENE** shows no change on a steady but quiet market: imported flakes and balls, £15 10s. per ton, in cases, ex wharf; British, about £14 7s. 6d. per ton, at works. Pure **METHYL ALCOHOL** is firm at about £46 per ton, in drums, ex store. **PYRIDINE** is idle: quoted from 6s. 6d. to 7s. per gallon, f.o.b. **PITCH** is quieter after the recent burst of business for next season: prices keep steady at about 92s. 6d. per ton, f.o.b. East Coast.

Fixed Oils, etc.

SOME items in this section have shown activity during the past week and prices have been improving a little. **Palma oils** are much brighter. English castor is higher, and coconut oils are very steady. Linseed oil and turpentine are steady. **ACID OILS** have remained dull and prices are easier: coconut and/or palm kernel, 32s.; groundnut, 31s.; soya, 27s. spot. **CASTOR.**—The market shows further improvement and is now very steady: English pharmaceutical, 52s.; first pressings, 47s.; second pressings, 45s. per cwt., in barrels, on the spot, in not less than one-ton lots. **COCONUT.**—Firm conditions are reported, with values fully maintained: deodorised, spot, 46s. 6d.; Ceylon, 39s. 6d. c.i.f.; Cochin, 50s. c.i.f. **COTTON** continues steady, with fair business being transacted: deodorised, 44s.; common edible, 42s.; soap-making, 39s.; crude, 37s. 6d. spot. **GROUNDNUT** is still dull: deodorised, 50s. 3d. spot; crude Oriental, 44s. c.i.f. **PALM KERNEL** is steady: deodorised, 51s.; crude, about 45s. spot. **PALM** has been much brighter and prices show a good recovery, closing firm: Lagos, 33s.; softs, 31s. 7½d.; mediums, 31s. 9d.; hards, 32s. 9d.; bleached, 34s. 6d. spot. **RAPE** remains dull and unsteady: refined, 47s. 6d.; crude, about 44s. spot. **SOYA** is steadier this week: deodorised, 42s.; crude, 35s. spot. **LINSEED** (raw, naked).—Prices have been about level on the week, closing easier; business has been quiet: on spot, 32s.; August, 31s. 1½d.; September-December, 31s. 6d.; January-April, 32s. 1½d.; boiled oil, spot, 36s. 9d. Hull, on spot, 32s.; August, 32s.; September-December, 32s.; January-April, 32s. 3d. **TURPENTINE.**—There has been no important change in American turpentine, and fluctuations were very narrow under a slow trade demand. Deliveries for last week here were 1,415 barrels, making a total for the year, so far, of 82,043 barrels, comparing with 73,909 barrels the same period last year. Total stocks were 31,584 barrels, against 15,229 barrels the same date last year. Including the landings and quantities afloat the total visible supply for London was returned at 33,934 barrels, which compares with 22,436 barrels the same date last year. The position altogether remains unsettled. Spot closes at 41s. 9d.; September-December, 42s. 9d. per cwt. **RESIN.**—There has been a steady demand from day to day, and current supplies have been well absorbed, the tone being firm. C.i.f. terms for shipment from America were as follows: B to M 21s. 3d., M 22s. 9d., W.G. 24s. 1½d., and W.W. 25s. 10½d.; spot, ex wharf, is about 9d. per cwt. more. **WOOD.**—Hankow, in barrels, on spot is firm at 8½s. to 8½s. per barrel, which prices have been paid.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—There is little change to report and prices are fairly steady, while business is on modest lines only. **BENZOL.**—Standard motor is steadier at 1s. 2d. per gallon, ex works, in tank wagons; crude 65's, about 11d.; pure, 1s. 6d. to 2s. **FUEL OIL** continues quiet and unchanged: 950 gravity, £4 5s.; 890 gravity, £4 15s. per ton, ex tank. **PARAFFIN WAX** and **SCALE** remain quiet and quoted prices unchanged: wax, 2½d. to 4d. per lb., according to melting point, in bags; scale is offered for shipment at about £16 to £17 per ton, c.i.f. U.K. port. **PARAFFIN OILS** are unchanged throughout: American standard white, 1s.; water-white, 1s. 1d. per gallon, barrels free; Roumanian white kerosene, 6½d. to 7d., ex tank, 7½d. buyer's barrels filled free, and 11d. per gallon barrels free, ex wharf, London; American water-white kerosene, 7½d. to 7½d., 8d., and 11½d. per gallon, respectively. **WHITE OILS.**—Prices are about the same, with the market quiet: Special No. 1, £24 5s.; No. 1, £23 7s. 6d.; No. 3 half-white, about £20 12s. 6d.; No. 4 half-white, £16 5s. per ton, drums and barrels free, ex wharf, London. **SOLVENT NAPHTHAS** are slow of sale: 90 to 180, 11d.; heavy, 90 to 190, 1s. per gallon, naked, at works. **PETROLEUM JELLIES** continue quiet with quoted prices easy: white to snow-white, £38 to £53; amber and yellow, £17 15s. to £22 10s.; dark stiff green, about £12 per ton, barrels free, ex wharf. **LUBRICATING OILS.**—Conditions continue dull, and there is no special change: on spot, pales, £10 to £22 10s.; reds, £12 to £22; dark cylinders, £12 to £29; filtered cylinders, £19 to £34 per ton, less 2½ per cent., ex wharf, London; lower prices for tank-wagon lots.

Commercial and Produce Notes

Italian Customs Tariff Revised

UNDER the provisions of the Italian Customs Tariff, revised valuations have been prescribed for essential oils, synthetic perfumes, alkaloids and alkaloid salts falling under Tariff Nos. 653 a (5), 658 b, 661 and 767 which are dutiable at the rate of 15 per cent. of their official valuations, these valuations being fixed periodically, in gold lire, by the Minister of Finance. The new valuations are mostly higher than those formerly in force. Valuations at per kilo have also been fixed for the following items which did not appear in earlier lists:—

Essential oils, not terpenecless: Cloves, 18 lire; pepper-mint, 80 lire; clary sage, 220 lire. *Synthetic perfumes, etc.:* Benzyl formate, 14 lire; citronellyl formate, 55 lire; phenylethyl formate, 50 lire; methylionone, 75 lire; benzyl propionate, 18 lire; geraniol propionate, 50 lire.

Sudan Gum Acacia

IN the course of a report on the economic progress in the Sudan issued by the U.S. authorities it is stated that the supply of Sudan acacia gum is considered to be almost unlimited, for enormous numbers of acacia trees exist in forests as yet unsurveyed and untouched. The trees that have been tapped (says the report) are only those nearest the main transport routes, yet exports of Sudan gum reached a value of £980,000 in 1925 and £824,000 in the first eight months of 1926. The trees are tapped by the natives during the winter months, and the gum is collected and sold in the auction markets of El Obeid and other district centres or in Khartum. The 1926 production is reported to have surpassed the "record" crop of 1923, partly because of increased demand and partly because comparatively poor grain crops forced many natives to make up their losses by collecting gum and freed numbers of pack animals for transportation to the markets.

Japanese Drug Imports

THE following table gives the total imports into Japan of a number of articles during the first seven months of 1926, together with the figures for the corresponding period of 1925 (amounts in kin):

	Seven months ended July 31			Seven months ended July 31	
	1925	1926		1925	1926
Castor oil ..	423,014	19,858	Pot. bromide	11,194	118,974
Cinchona ..	337,600	566,082	Glycerin ..	2,516,634	1,194,322
Boric acid ..	803,106	1,054,899	Milk sugar	299,212	243,415
Tartaric acid ..	494,930	224,340	Opium ..	20,500	17,102
Salicylic acid ..	156,866	248,482	Santonin (oz.)	84	1,764
Citric acid ..	89,219	118,065	Quinine salts (oz.)	219,843	148,964
Borax ..	4,342,179	4,278,449	Morphine salts (oz.)	34,442	1,810
			Guaiacol carb.(oz.)	274,904	296,404

New Zealand Kauri Gum

THE receipts of kauri gum in the city of Auckland for the period January to May, 1927, were 1,498 tons, compared with 1,913 tons for the 1926 period, and 2,350 tons for January-May, 1925. The market (says the Wellington correspondent of the London "Chamber of Commerce Journal") has brightened up owing to inquiry from the United States for "medium black," and this gum is quoted in Auckland at £35 to £40 per ton (July 4). Stocks in Auckland are reported as very light. Accounts of the fields show that digging is very much reduced there. This is natural in the winter time, but in any case there is far less gum being dug than was the case some years ago. Men are finding other occupations, and the Dalmatian diggers are fewer than formerly. The newly-appointed Kauri Gum Board of Control has met merchants with regard to sale of Government holdings of gum and to other matters relative to the export trade. The Board has announced that it will work along commercial lines, dealing only with saleable gum. It has power to raise money by debentures and to use such or any other funds for the purposes of the industry, and such money will be supplemented by levies on all gum exported. The Chairman of the Board has reported that a company was proposing to treat swamp timber (found in association with gum) for the extraction of oil and other products.

Ammonium Sulphate in Java

SULPHATE of ammonia is the principal fertiliser used in cane fields in Java. The quantity imported from foreign

countries in 1925 was 90,664 tons, against 111,949 tons in 1924 and 81,541 tons in 1923. The imports from the United States of America are increasing every year while those from Great Britain are falling, as will be seen from the table for the last three years given below.

From	1923	1924	1925
	Tons	Tons	Tons
Holland ..	9,603	13,574	13,397
Great Britain ..	45,074	43,344	27,233
Germany ..	3,136	7,951	5,236
Belgium ..	1,633	—	125
United States ..	20,056	42,485	43,656
British India ..	1,785	3,012	—
Australia ..	254	1,117	1,017
Other Countries ..	—	466	—
Total ..	81,541	111,949	90,664

The most noteworthy point is that British India, which exported 1,785 tons in 1923 and 3,012 tons in 1924, did not export any quantity to Java during 1925. So far as it could be ascertained, this was because other countries could supply Java at a cheaper price. Java importers prefer the neutral sulphate of ammonia to that containing about 0.5 per cent. free acid.

U.S. Chemical and Drug Trade

THE following are among the imports of drugs, herbs, leaves, roots, etc., into the United States during May 1927, compared with May 1926, and for the five months ending May 1927, compared with the corresponding period of 1926:—

	May	May	Five months ending May	
	1926	1927	1926	1927
	lb.	lb.	lb.	lb.
Cinchona ..	549,549	28,261	1,728,212	858,745
Insect flowers ..	1,022,882	1,041,919	4,709,768	4,083,141
Liquorice root ..	18,567,395	6,258,647	47,326,341	35,823,117
Liquorice ext. ..	95,387	117,486	571,442	397,577
Senna ..	192,041	136,587	1,142,390	693,816
All other drugs (free)	1,674,401	2,188,664	8,456,300	8,767,297
" " " (dut.)	196,905	325,271	1,185,093	1,209,743

Among the gums, resins, etc., imported were the following:—

	May	May	Five months ending May	
	1926	1927	1926	1927
	lb.	lb.	lb.	lb.
Varnish gums, and resins—				
Damar ..	1,181,936	2,015,896	6,881,947	6,336,832
Kauri ..	526,964	437,895	2,861,634	1,489,527
Shellac ..	2,806,768	2,386,769	13,536,779	10,374,153
All other ..	4,503,648	6,556,078	21,931,170	23,302,630
Camphor—				
Natural, crude ..	24,630	129,521	1,058,255	895,489
Refined ..	25,485	97,569	403,509	613,050
Synthetic ..	213,821	250,000	1,422,668	1,066,953
Chicle ..	1,163,759	1,026,044	7,238,518	7,080,440
Balsams, crude ..	26,377	40,556	141,134	132,619
Gums and resins, n.e.s.—				
Arabic ..	1,481,779	933,684	4,066,913	3,419,704
Tragacanth ..	117,509	122,010	835,246	887,561
All other (free)	868,668	1,198,495	11,234,185	8,910,854
" " (dut.)	3,742	2,972	17,394	23,991

DRAGON'S BLOOD.—The production of dragon's blood on the East Coast of Sumatra has fallen off, as the natives have been giving attention to the more profitable cultivation of rubber and copra. The total production in Sumatra in 1925 was only 22 tons, the bulk of which was exported via Penang, Straits Settlement.

MARINE INSURANCE OF "DANGEROUS DRUGS."—From September 1 next the "Dangerous Drugs Clause," which has been referred to on several occasions in this journal, will be inserted by British underwriters in all policies under which drugs and chemicals are insured.

IMPORTED OATMEAL.—It is announced that an application for an Order in Council under the Merchandise Marks Act, 1926, to require the marking of imported oatmeal and rolled oats, and also oatmeal milled in the United Kingdom from imported oats, has been referred to a Standing Committee. Communications with regard to the matter should be addressed to Mr. H. J. Johns, Secretary of the Standing Committee, 10 Whitehall Place, London, S.W.1.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Insurance Payments for 1927

SIR,—Your correspondent, "Average Care" (*C. & D.*, August 20, p. 267) asks 4s. 4d. for dispensing the sod. sal., pot. iod. and hyoscyamus mixture of which he gives the formula, and complains that another chemist had dispensed it for 2s. 6d. If this mixture was dispensed for the Government, the price paid, according to the present drug tariff, would be:—Cost of ingredients, 1s. 9d.; mixture fee, 5d.; total 2s. 2d. That is the old price, but those responsible for conducting negotiations with the Ministry of Health are now recommending us to accept from 15 to 20 per cent. less for our work. I am inclined to apply your correspondent's own words: "Errors of judgment of this description are largely responsible for the unfortunate position of many chemists to-day."—I am, etc.,

DISCONTENTED (24/8).

SIR,—As to the farcical terms accepted by the Retail Pharmacists' Union for Insurance dispensing, the bleatings of the varied panel chemists, the verbiage—O for a chemical Lord Fisher! My advice of a few months ago "to scrap the R.P.U. and the Society" and rebuild on something more in conformity with common sense and business principles is certainly proving sound. What business man would accept such terms as are imposed for technical services of a high order requiring both time, skill and knowledge, I fail to see. Fancy tying oneself up in a contract for four or five years—handicapped with 30 per cent. deductions—on the easy assumption that the latter half of the contract would pay for the first half. Ye gods! Some of us will be dead by then. What superlative imbecility! No, the crux of the whole matter is this: we have been misled by a set of men thinking in grains and minims when Imperial measures were required, and it is up to all of us to resign "en bloc" and so bring pressure to bear that will tell. The very first thing requisite is a drastic reduction in the doctors' fee (which is out of all proportion), and that reduction attached to the chemists' fee (which is also absurdly disproportionate, but, unfortunately, on the wrong side)—in other words, a shilling dispensing fee as a minimum and as a professional right. This I advocated last year.—Yours faithfully,

Rhyl.

F. H. SLINN.

Looking Back

SIR,—The contributor of the article "Looking Back" (*C. & D.*, August 20, p. 247) says, towards the end of his interesting reminiscences, that he would doubtless be looked upon as a "back number," but after a perusal of some of his business principles I should say that he was considerably more up-to-date than many of his present-day confrères. He says that he always packed and ran his own specialities; he filed his testimonials and used them in advertising matter; he accepted small orders with as much civility as large ones; and he always offered to procure anything not in stock. It is lamentably true that these sound business principles are out of date or are considered too much trouble by the younger generation, and yet as business-getters they hold as good to-day as they did fifty years ago. I have stuck to them in my own business. I was particularly interested in your contributor's account of an extemporaneous suppository mould; it reminded me of a machine which we had in one pharmacy where I was an assistant, in which the suppositories were massed cold and then compressed through a hole in a metal plate and afterwards cut into lengths, and it brought to my mind a much more elementary device which I had to make use of abroad to turn out bougies. Tinfoil was wrapped round a penholder and

then pressed into a box filled with linseed meal, the penholder being withdrawn, leaving the tinfoil as a mould. Cachets were made with a weird contrivance which consisted of a piece of wood hollowed out at one end to take one cachet at a time, another piece holding the top half to seal it, and it more often dropped off before being placed in position; when two or three dozen had to be made it was a very tedious process. I am afraid that the modern apprentice with his machine-made pills and ready-made galenicis would find himself in a very awkward predicament if suddenly transported to the wilds and faced with such conditions, unless he possessed an unusual amount of "nous."—Faithfully yours,

QUARANTA ANNI (22/8).

Linseed, Liquorice and Chlorodyne Lozenges

SIR,—"Chloromorph" (*C. & D.*, August 13, p. 237) presumes that formulas for chlorodyne without morphine are published for the benefit of unqualified vendors. While to some extent the case, this is by no means all the truth, as consideration of the case in question—L., L. & C. lozenges—will reveal. While "W. L. T." would doubtless not dispense a "sine-morph." preparation to a prescription calling for "chlorodyne," neither, I expect, would "Chloromorph" hand lozenges containing morphine to a customer who asked for half a pound of linseed, liquorice and chlorodyne lozenges. Moreover, as "Chloromorph" points out, there is a doubt as to which of the official preparations (B.P.C., B.P. 1885, etc.) is required by the prescriber when "chlorodyne" is ordered. Patently, therefore, it would be to the public interest for the potent preparations to be designated by their official and thus distinguishing titles, leaving the word "chlorodyne" for the legion of harmless preparations.—Yours faithfully,

D. C. B. (17/8).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Warning

Chemists near the Metropolitan area are complaining of the activities of a man who solicits a trial order for disinfectant shells retailing at 2d. each, and offers to leave slip labels or the equivalent at houses served by the shops concerned. Leaflets bearing a provincial and a London address are shown to or left with the chemists.

Colouring Bath Crystals

For colouring bath crystals I have found naphthol green excellent for a green colour, and tartrazine for a yellow. Both are very stable. I found that they were not spirit-soluble, so that it was necessary to colour the crystals with a saturated aqueous solution of the dyes and allow the moisture to dry off, spreading the crystals out in a thin layer before adding the perfume. As a diluent for the perfume I found acetone quite satisfactory as it soon exaporates, leaving no smell, and is cheaper than alcohol.—R. J. Stratton, Ipswich.

Legal Queries

J. W. R. (17/8).—Chilblains and cutaneous eruptions are held to be ailments within the meaning of the Medicine Stamp Act of 1812.

P. W. C. (13/8) asks if there is any means of enforcing payment of a debt due from a person who has gone to Australia. [Unless the debtor has property in this country it will be impossible to enforce payment of the debt except by taking legal proceedings in Australia, which may be a costly matter. If the debtor has property here upon which execution can be levied, he may be sued in this country; but it will be necessary to observe the formalities customary when a person outside the jurisdiction of the Court is being served with a writ or summons.]

M. (76/8) asks if distilled water bears the table waters duty, (a) when sold for drinking, and (b) when used to dilute potable spirits (e.g., by a publican). [In the case of (a) there is liability to the duty, as the water is an aerated water or other beverage kept for sale in bottles or other corked or closed receptacles, within the meaning of the Act. In the case of (b) there is no liability. It is not then sold for consumption as a beverage, but for the breaking down of spirits to be so consumed, and the liquor so sold and consumed is one for the retail sale of which an Excise licence is required. Such liquors are expressly exempted from the duty.]

Dispensing Notes and Difficulties

A Clear Mixture

SIR,—Would you kindly tell me how the following should be dispensed?—

Potas. bromid.	...	...	...	3ss.
Phenazoni.	...	...	...
Chloral hyd.	...	...	aa.	3j.
Syr. simp.	...	...	ad	3iv.

Yours, etc.,

X. Y. (3/8).

[Dissolve the potassium bromide and phenazone in half of the syrup, the chloral hydrate in the other half, and mix the two solutions. This method produces a perfectly clear mixture. If all three salts are rubbed down together, a cloudy mixture with some precipitate is obtained. When phenazone and chloral hydrate are brought into immediate contact, an oily, insoluble compound results. By the procedure indicated above this is obviated.]

An Iron Citrate Mixture

SIR,—Can you offer an explanation as to what occurred when I dispensed the following?—

Ac. acetylsal.	...	...	...	3ij.
Pot. cit.	...	...	...	3ij.
Liq. ferri perchlor.	...	...	...	3ij.
Aq. chlorof.	...	...	ad	3viij.

The acetylsalicylic acid was powdered in a mortar, then the pot. cit. and water were added, and finally the liq. ferri perchlor. The mixture turned pale green.

Yours faithfully,

H. J. L. (25/7).

[The pale green colour of the mixture is due to formation of green iron citrate. Incidentally, we may say that if the acetylsalicylic acid, potassium citrate and solution of ferric chloride are rubbed together and chloroform water added gradually, the undissolved material is obtained in a more uniform and somewhat finer condition than by the method you describe; in the latter instance separation occurs upwards and downwards, but by the former way precipitation occurs only downwards; consequently, the floating material remains longer in suspension.]

An Iron Pill

SIR,—Please inform me as to the best way of dispensing the following pill:—

Ferri sulph.	...	...	...	gr. j.
Ol. carui	...	...	...	℥j.

I have used equivalent of ferri sulph. exsic. together with the usual powders, but the mass obtained remained in a crumbing condition. I did not use powdered soap, as combination with ferrous sulphate would have taken place.—Yours truly,

G. S. W. (19/7).

[Place twelve minims oil of caraway with six grains of white beeswax in a squat test tube and heat on a water bath till melted, then run cold water on the tube till the contents solidify; then, having powdered finely the ferrous sulphate and mixed with it six grains of powdered liquorice, beat gently into a mass with the oil of caraway and white beeswax scraped from the tube. Roll and cut in the usual way. The mass is a little brittle if roughly handled, but when cut the pills round easily and preserve their shape. In this way nothing is added that will in any way change the ferrous sulphate or caraway oil.]

An Unimportant Precipitate

SIR,—Will you please tell me what is the black precipitate sometimes deposited in the following mixture, and how it can be avoided?—

Sodii. bromid.	...	...	...	gr. x.
Sodii. bicarb.	...	...	...	gr. x.
Tr. bellad.	...	...	...	℥xx.
Tr. hyoscy.	...	...	...	℥xxv.
Spt. ammon. arom.	...	...	...	℥v.
Spt. chlorof.	...	...	...	℥xx.
Aq. menth. pip.	...	...	ad	3ss.

Yours truly,

AMERIK (16/8).

[The precipitate is a little of the salts which is undissolved and carries down with it colouring matter from the tinctures. At first sight it would not appear that any difficulty would be experienced in dissolving the salts. It has to be borne in mind, however, that the spirituous constituents amount to a sixth of the whole and peppermint water is saturated with essential oil, and thus the solvent capacity of the liquid is diminished. We are afraid the sediment cannot be avoided without undue interference with the composition of the mixture. Besides, the precipitate is of no importance. Dispense with a "Shake" label.]

An Acetylsalicylic Acid Mixture

SIR,—By the use of hot water the following mixture makes a fairly clear solution, and it would be interesting to know what alteration, if any, takes place:—

Potas. citrat.	...	...	...
Ac. acetylsalicyl.	...	...	aa.	3iiss.
Potas. brom.	...	...	ad	3viij.
Aq. chlorof.	...	...	ad	3viij.

Yours faithfully,

E. D. (19/2).

[It is well to avoid the use of warm water in compounding a mixture of this sort, because if there are more salts than the liquid will retain in solution in the cold but taken up by the hot water, they will be thrown down again immediately the mixture becomes cold, and usually in a form that is less amenable to shaking than when rubbed down in the cold with the liquid. The only decomposition likely to occur is some hydrolysis of the acetylsalicylic acid with liberation of salicylic acid, which will be partly redissolved by the potassium citrate. The medicinal properties will not be affected by any little change which may occur among the constituents. The undissolved acetylsalicylic acid remains fairly well in suspension, but about twelve grains of tragacanth (if the prescriber consents to the addition) would prevent any fear of unequal distribution in pouring out doses.]

Awkward Weights in Pills

SIR,—We should like to know the simplest method of calculating the weights for the following pills:—

Strych. sulph.	...	...	...	gr. $\frac{1}{100}$
Ext. cannab. ind.	...	...	...	gr. $\frac{1}{10}$
Ext. bellad.	...	...	...	gr. $\frac{1}{8}$
Ext. aloes Barb.	...	...	...	gr. $\frac{3}{4}$
Ext. tarax.	...	...	...	gr. iij.
Ft. pil. Mitte xxiv.	...	...	...

Yours faithfully,

E. P. (3/6).

[The simplest procedure is to make twenty-five pills and thus obtain the requisite amount of medicaments in quantities weighable by the ordinary dispensing balance, viz. :—

Strychnine sulphate	...	...	$\frac{1}{4}$ gr.
Ext. of Indian hemp	...	...	2 $\frac{1}{2}$ gr.
Ext. of belladonna	...	...	3 $\frac{3}{4}$ gr.
Ext. of Barbadoes aloes	...	...	18 $\frac{3}{4}$ gr.
Ext. of taraxacum	...	...	75 gr.

One pill can be rejected and twenty-four sent out. In event of twenty-four pills being made, the fractional quantities can be obtained by making triturations. For example, $\frac{1}{100}$ of strychnine sulphate, i.e., $\frac{1}{25}$, take one grain of strychnine sulphate, triturate it with twenty-four grains of sugar of milk, and of the mixture take six grains; and similarly proceed with the others. For further information in this connection consult "The Art of Dispensing."]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. B. (22/7).—The following are the formulas for which you ask:—

Mouth Wash		Fly Sprays	
Zinc chloride	... gm. 2.2	I	
Saccharin	... gm. 0.4	Formalin	... 1/2 oz.
Menthol	... gm. 0.6	Water	... 20 oz.
Cinnamon oil	... gm. 1.4	II	
Clove oil	... gm. 0.4	Eucalyptol	... 10 parts
Alcohol	... gm. 100	Bergamot oil	... 3 parts
Formalin	... gm. 0.5	Acetic ether	... 10 parts
Distilled water	to 1 litre	Eau de Cologne	... 50 parts
Colour with cudbear, and filter through kieselguhr.		Alcohol 90 per cent.	100 parts

Add one part to ten of water, and spray the room frequently. The use of isopropyl alcohol would reduce the cost.

G. H. M. (30/7).—COUGH MIXTURE FOR ADULTS.—The formula for which you inquire is as follows:—

P.F. 308 (For Adults)	
Chlorodyni	... 3j.
Vin. ipecac.	... 3ij.
Oxy. seillæ	... 5vj.
Liq. papav.	... 3ss.
Aq. chlorof.	... ad 3vj.

Signe: 3ss. bis terve die et h.s.

This preparation may be labelled: "Contains tr. chlorof. et morph. B.P. '85, 1/48; liq. papav. (morph. hydrochl. 0.05 per cent.) 1/96—Poison." Alternatively, it could be labelled with the proportion of morphine, hydrocyanic acid and chloroform. Each fluid ounce contains 0.0237 gr. morph. hydrochl.

T. & C. (1/8).—SOFT SOAP.—The following recipe is given in "Pharmaceutical Formulas":—Dissolve 20 lb. of caustic potash in 3½ galls. of water; when cold pour the solution, in a thin stream and slowly, into 8½ galls. of cottonseed oil, stirring with a wooden stirrer 3 in. broad. Stir gently until the potash and oil have combined and the mixture has the appearance of honey. Cover and set aside in a warm place until next day, then stir gently but well, and set aside for several days. The product is for domestic use; it is too stiff for sale, but if that is desired mix with it a third of its weight of water, aiding the process by heat, but the mixture should not be boiled. Instead of cottonseed oil 75 lb. of tallow or grease (e.g., kitchen waste) may be used. Cottonseed oil yields a soap varying from amber to greenish, according to the degree of refinement of the oil. In winter such a soap may become turbid owing to the palmitin. Freshly made cottonseed soaps are free from odour but are somewhat liable to become rancid and develop odour on keeping. Linseed oil yields a soap of dark colour with a pleasant odour. Whale and other fish oils are often used for cheapness.

M. E. A. (9/8).—The term "Brystte" is the Danish word for species pectorales, a mixture of drugs for which the Danish Pharmacopœia gives the following formula:—

Anise	... 80 grams
Coltsfoot leaves	... 120 grams
Mullein flowers	... 120 grams
Speedwell	... 120 grams
Liquorice root	... 120 grams
Elderflower	... 160 grams
Marshmallow root	... 280 grams

F. B. (9/8).—TIN CHLORIDES IN THE SILK INDUSTRY.—Stannous chloride is used in the textile industries on account of its reducing properties for the reduction of nitro azo. and diazonium compounds. The commercial article occurs in monoclinic crystals with the composition $\text{SnCl}_2 + 2\text{H}_2\text{O}$, and is known as "tin salts" or "tin crystals." Stannous chloride finds use nearly exclusively as a mordant in the dyeing of silk and cotton, especially in Turkey red dyeing, where it is used to give "fire" to the colour. In the dyeing of

silk its application is confined to catch black and Berlin blue dyeing. Stannic chloride is employed also as a mordant in silk dyeing and also to "load" silk previous to the dye-bath. Fairly pure SnCl_4 is used, as impurities tend to weaken the fibres and make the latter more sensitive to the action of light. Stannic chloride is a colourless liquid, but it is sold in commerce in the form of colourless monoclinic crystals, with the formula $\text{SnCl}_4 + 5\text{H}_2\text{O}$. Stannic chloride is important in the silk industry as a "chargé minérale." A solution 30° Bé is used, and after soaking in this solution the material is washed to hydrolyse the SnCl_4 into hydroxide. Loading has the twofold scope—increase in weight, increase in volume.

H. N. G. (11/8).—TAKING IN INSURANCE PRESCRIPTIONS.—The information you give is not complete. The position is: (1) If the (branch) drug store merely receives prescriptions and sends them to the (main) chemist's shop for dispensing, and the finished medicine is sent out from there with the address of the main shop on the bottle, no sale or dispensing of poisons takes place at the shop which is under unqualified management. But (2) if the prescription is sent from the drug store to the main shop, and the finished medicine is returned to and distributed from the drug store (whether bearing the address of the drug store or not), this arrangement is quite irregular, and, in case of medicine containing a scheduled poison, involves consideration of the provisions of the Pharmacy Acts also. Every chemist wishing to undertake insurance dispensing must, in his application to the Insurance Committee, indicate the address of each shop at which the work will be done. Any chemist, therefore, who suspects that insurance dispensing is being done irregularly should communicate the facts to the secretary of his Pharmaceutical Committee.

J. W. H. (11/8).—SICK-ROOM SPIRIT.—See *C. & D. Diary*, 1926, 277.

J. B. (24/8).—Thymol from ajowan seed is obtainable, and this, no doubt, is what was in the mind of the prescriber to whom you refer.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," August 16, 1877.

Chemical Remedies

It must be a matter of surprise to the purely scientific chemical student who, for the first time, opens the British, or, indeed, any other modern Pharmacopœia, to find that of late years so few compounds have passed from the domain of the chemist into that of the pharmacist. Taking the latest edition of the British Pharmacopœia, published in 1874, and looking down the list of articles included in this issue, but not in that of 1854, he would not discover more than about a dozen new substances which can be properly termed chemical. Of these a large majority, such as ammonium bromide, calcium iodide, and bismuth carbonate, are more or less valuable modifications of old compounds, the only really important and original novelties being carbolic acid, chloral hydrate and amyl nitrate, so that in the space of ten years the therapist has drawn but three official substances of any real value from the vast stores of the scientific chemist. If our chemical student should travel beyond the confines of the British Pharmacopœia, and search the leading pharmaceutical and medical journals of the last decade, he will find that during that time but very few non-official compounds have been introduced, even temporarily, into practical pharmacy. Numerous desultory and unsystematic trials have been made with various substances, but anything like a series of scientifically conducted experiments is only to be found in a very few cases. Amylene, methylene-bichloride, methyl-ethyl ether, trimethyl ether and a number of similar compounds have been tried as anæsthetics by Dr. B. W. Richardson and others, but, in spite of the truly philosophical way in which these researches were carried out, our old friend chloroform seems to retain its ancient supremacy. Salicylic acid and its salts have a certain number of advocates in various quarters, but their worth as remedial agents does not seem as yet to be fully recognised. Picroles have been introduced as more or less efficacious febrifuges by different practitioners, but in spite of several cases of intermittent fever and ague having been cured by them, the cinchona alkaloids still keep their place in the market.



[Commenced C. & D., July 5, 1924]

Linseed Oil.—Linseed oil, which is the chief and most important drying oil in commerce, is obtained from the seeds of the flax plant, *Linum usitatissimum*, Linn. The principal centres producing the seed in commercial quantities are Russia, India, U.S.A., Canada and Argentina. Of the Russian-grown seeds two varieties are recognised, namely, Baltic and Black Sea seed, deriving their titles from the district where they are produced. The oils produced from these are known on the market as "Baltic linseed oil" and "Black Sea linseed oil," whilst that made from Indian seed bears the name "East India oil." Baltic linseed oil is the best drying oil, as the Baltic seed is the purest, whereas in Black Sea seed 5 per cent. (and more) of hemp or raven seed is normally present, and Indian seed is always mixed with mustard, rape, and cameline seed, this being caused by inter-growing these plants with flax plants. Experiment has shown that if Indian linseed was carefully separated from all foreign substances, the oil therefrom possessed as good drying properties as best Russian oil. Of late the quality of the Indian seed has improved, more attention to the necessity of keeping the flax separate having been observed. South American seed, yielding "River Plate oil," is largely imported into England, but it contains much chaff and fibre owing to poor methods of harvesting. Better methods would allow "La Plata oil" to equal "Baltic oil" in drying properties. Canadian seed is not largely imported here, but the U.S.A. still import East Indian seed. Linseed oil has the following characters: Specific gravity about 0.930; saponification value about 190; iodine value, 160 to 180; and refractive index about 1.4800 at 20°. Imported linseed is sampled and tested by the Linseed Association to ascertain the proportions of linseed and foreign seeds. Oil-yielding seeds other than linseed are calculated as having half the value of the latter, and non-oleaginous seeds are reckoned as having no value at all. Not only does the country of origin affect the proportion of linseed oil in the seed, but also the season of the year. The appended figures, therefore, must only be regarded as averages, and it should also be borne in mind that extraction with ether gives a larger yield of pure oil than extraction with petroleum ether.

	Per cent.
Russian linseed oil, yield	32 to 38
Indian linseed oil, yield	37 to 41
River Plate linseed oil, yield	35 to 36

Cold pressing yields a golden-yellow oil with a pleasant taste and edible, and considerable quantities are prepared for this purpose in Russia, Hungary and India. By far the largest quantities, however, are prepared for industrial purposes. The seed is crushed between rollers and then heated up to about 160° F. in the mixing kettle, and, whilst still warm, is expressed. The resultant oil is yellowish-brown and somewhat turbid, whilst the press cakes retain about 10 per cent. of oil. On storing the oil, the moisture and mucilaginous matter gradually settle out and the oil appreciates, especially for the purpose of varnish making. Such oil, after being stored for a period (sometimes years), is known as "tanked oil." Heating in a test tube is the usual test for suitability for varnish making; if gelatinous matter separates, the oil is considered unfit for

this purpose. The mucilage (or "spawn" or "break") consists of phosphates and traces of sulphates. A sample of freshly expressed linseed oil heated to 400° F. was found to yield 0.277 per cent. of a precipitate, which on washing with petroleum ether to remove the oil completely gave 47.79 per cent. of ash, consisting of 20.96 per cent. of calcium oxide, 18.54 per cent. of magnesium oxide, 59.85 per cent. of phosphorus pentoxide and traces of sulphate. Other samples of linseed oil gave the appended results:—

	Ash Per cent.
No. 1.—Fresh double-filtered raw American linseed oil	0.1429
No. 2.—Fresh double-filtered raw American linseed oil	0.1967
No. 3.—Good, well-settled raw American linseed oil	0.609
No. 4.—Best American linseed varnish oil	Traces

It is, of course, evident that the enhanced value of "tanked oil," wherein the impurities have settled out by long standing, is its comparative freedom from foreign substances. A more rapid method is to refine the oil, as is done in the case of the better-class linseed oils, such as paint oils. The linseed oil is treated with from 1 to 2 per cent. of moderately concentrated sulphuric acid. For the best and finest kinds of linseed oil (artists' oil), the refined oil is subjected to "sun-bleaching" by the exposure of the oil in shallow trays under glass to the action of the sun.

"Boiled oils" take their name from the almost obsolete process of heating linseed oil, mixed with a small quantity of suitable metallic oxides or metallic salts—*driers*—over a free fire at from 210° to 260°. This procedure was known as "oil boiling." What action takes place during the process is not fully known. Undoubtedly a slight decomposition of the glycerides occurs, but to a very limited extent, as "boiled oil" still yields almost its full amount of glycerol. At present most of the "boiled oils" are produced by heating linseed oil with driers to a temperature of about 150° C. only. This is done by placing the oil in a cylindrical vessel having a heating coil and an agitator. Pale or dark oils are produced according to the proportion of drier used and the length of "boiling." The former are commercially known as "pale boiled oils," and the latter as "double boiled oils." "Boiled oils" can also be prepared in the cold by merely adding a solution of lead linoleate or manganese linoleate to linseed oil and thoroughly intermixing, but oils prepared in this way are inferior in drying qualities. Linseed oil is practically the only oil used commercially for the manufacture of "boiled oils," except, perhaps, to some extent, wood oil. The following table of the characteristics of "boiled oils" shows the variations to be expected:—

Characteristics of Boiled Oils (Lewkowitsch).

Name	Specific gravity	Iodine value	Hexabromides from glycerides
			Per cent.
Linseed oil (raw) ..	0.9308	186.4	24.17
Pale boiled linseed oil	0.9429	171.0	20.97
Double ..	0.9449	169.96	13.03
Ozonised ..	0.9310	180.1	36.26–36.46
" ..	0.9388	171.2	25.73
" ..	0.9483	169.7	30.19
Safflower oil (raw) ..	0.92461	146.46	Traces
Double boiled safflower oil ..	0.9340	137.3	—
Pale boiled safflower oil ..	0.9360	139.1	—
Ditto, ditto ..	0.93631	137.0	—
Double boiled safflower oil ..	0.9447	141.8	None
Ditto, ditto ..	0.95035	127.3	—

Linseed Oil, Commerce of (continued from p. 240).—The following figures show the imports and exports of raw and refined oil, also boiled linseed oil into and



The C.&D. Commercial Compendium



from the United Kingdom during 1921 to 1925 inclusive:—

Imports of raw linseed oil

From	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Netherlands ..	—	2,462	2,413	1,674	11,413
Belgium ..	—	989	1,078	—	4,919
France ..	2	3	—	—	49
Other foreign countries ..	11	1	5	19	69
Total from foreign countries ..	13	3,455	3,496	2,404	16,450
Value .. £	480	134,472	148,948	100,716	741,389

Exports of raw linseed oil

To	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Norway ..	1,416	345	257	332	87
Germany ..	3,006	102	120	769	55
Netherlands ..	1,811	132	119	292	22
Belgium ..	3,582	15	76	50	13
France ..	4,116	150	43	387	29
Italy ..	1,116	562	126	156	14
Egypt ..	—	—	296	308	398
United States ..	20,397	37,646	13,225	3,999	3,166
Brazil ..	1,543	2,766	2,024	2,749	3,382
Other foreign countries ..	1,642	657	1,281	1,191	950
Total to foreign countries ..	38,629	42,375	17,567	10,233	8,116
Value .. £	1,447,064	1,552,243	756,403	442,706	406,580
Egypt ..	192	251	—	—	—
South Africa ..	577	461	905	817	866
Mauritius, etc. ..	92	55	145	137	56
Australia ..	1,280	1,855	2,888	2,338	2,020
New Zealand ..	955	737	1,027	1,085	1,252
Canada ..	25	84	670	273	27
Brit. W. Ind. ..	151	171	235	219	230
Other British countries ..	357	364	654	722	741
Total to British countries ..	3,629	3,978	6,524	5,591	5,192
Value .. £	178,464	189,558	321,843	278,022	280,663
Total ..	42,258	46,353	24,091	15,824	13,308
Value .. £	1,625,528	1,741,801	1,078,246	720,728	687,243

Imports of refined linseed oil

From	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Netherlands ..	34	316	340	160	399
Belgium ..	3	143	29	—	4
France ..	—	—	50	—	—
Other foreign countries ..	1	12	3	6	5
Total from foreign countries ..	38	471	422	166	408
Value .. £	2,678	19,631	19,966	8,889	19,803

Exports of refined linseed oil

To	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Germany ..	112	2	26	93	5
Italy ..	525	45	37	23	14
China ..	46	101	101	100	35
United States ..	414	1,446	464	853	79
Chile ..	10	49	79	31	26
Brazil ..	142	20	39	26	37
Other foreign countries ..	1,535	657	425	357	252
Total to foreign countries ..	2,784	2,320	1,171	1,483	448
Value .. £	129,520	97,357	54,590	66,940	23,847
British India ..	43	68	30	29	11
Hong Kong ..	72	102	103	89	37
Australia ..	137	239	177	68	49
New Zealand ..	142	250	172	217	133
Other British countries ..	291	170	136	215	241
Total to British countries ..	685	829	618	618	471
Value .. £	35,038	41,700	34,278	33,205	26,640
Total ..	3,469	3,149	1,789	2,101	919
Value .. £	164,558	139,057	88,868	100,145	50,487

Imports (boiled oil)

	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Netherlands ..	14	119	193	69	281
Belgium ..	—	—	3	4	3
Other foreign countries ..	1	9	3	9	7
Total from foreign countries ..	15	128	199	82	291
Value .. £	949	5,600	8,407	4,345	12,476
Total from British countries ..	—	—	—	—	1
Value .. £	10	8	2	57	85
Total ..	15	128	199	82	292
Value .. £	959	5,608	8,409	4,402	12,561

Exports (boiled oil)

	1921	1922	1923	1924	1925
	Tons	Tons	Tons	Tons	Tons
Sweden ..	107	27	7	47	19
Norway ..	923	472	391	290	287
Netherlands ..	73	5	10	48	72
France ..	154	80	33	81	21
Port. E. Africa ..	58	58	43	44	48
Italy ..	1,296	918	615	1,332	221
Greece ..	242	161	195	251	157
Egypt ..	—	—	1,090	1,172	1,266
China ..	126	146	171	153	349
United States ..	27	436	1,003	22	41
Cuba ..	116	407	639	685	703
Peru ..	139	168	218	298	247
Chile ..	187	473	748	879	720
Brazil ..	186	206	128	225	254
Argentina ..	123	109	186	314	347
Other foreign countries ..	1,485	1,200	1,465	1,986	1,614
Total to foreign countries ..	5,321	5,022	7,090	7,978	6,590
Value .. £	243,247	234,792	333,392	383,143	348,075
Irish Free State ..	—	—	159	202	180
Egypt ..	910	930	—	—	—
South Africa ..	655	541	908	871	807
British India ..	834	995	919	788	850
Straits Settlements ..	233	240	326	289	355
Malay States ..	27	30	59	83	123
Ceylon ..	28	127	112	192	180
Hong Kong ..	176	235	168	160	132
Australia ..	459	782	870	704	697
New Zealand ..	289	265	364	443	365
Canada ..	37	67	99	91	49
Brit. W. Ind. ..	70	110	131	115	136
Other British countries ..	486	542	584	729	660
Total to British countries ..	4,204	4,864	4,699	4,667	4,534
Value .. £	220,272	236,451	254,271	249,601	257,871
Total ..	9,525	9,886	11,789	12,645	11,124
Value .. £	463,519	471,243	587,663	632,744	605,946

Lint.—A soft absorbent cotton cloth, the fibres of which have been raised from the warp yarns to give a downy surface. The better the quality of the lint the larger is the number of the threads and, as a rule, the greater the superficial area per ounce. For National Insurance purposes all lints supplied by chemists must be in original sealed packets, and of the standard given in the British Pharmaceutical Codex, namely:—*Unmedicated*: superficial area to be not less than 230 square inches per ounce; *Boric*: prepared by immersing unmedicated lint in a saturated solution of boric acid in boiling water, removing excess of liquid and drying. It should contain 35-45 per cent. of boric acid, and one ounce of lint must cover a superficial area of 126-149 square inches. It is usually coloured pink. *Sal Alembroth*: prepared by dissolving alembroth salt in water and tinting with blue dye. Unmedicated lint is then saturated with this solution and allowed to dry. The finished product must contain 0.75-1 per cent. of alembroth salt, and one ounce must cover not less than 230 square inches. Plain lint is also medicated by various other antiseptics, such as carbolic acid, salicylic acid, eucalyptus oil and iodoform. The sizes of the packets mentioned in the drug tariff are 1 oz., 2 oz., 3 oz., 4 oz., 6 oz., 8 oz., and 1 lb. for the unmedicated and boric varieties, and 1 oz., 2 oz., and 4 oz. for the sal alembroth. Where the quantity to be supplied is not stated on the prescription a 1-oz. packet should be given.

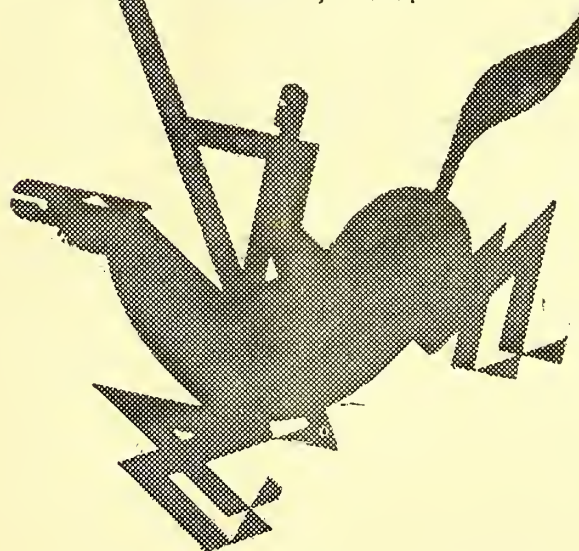
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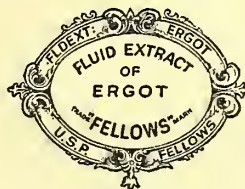
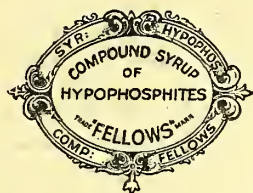
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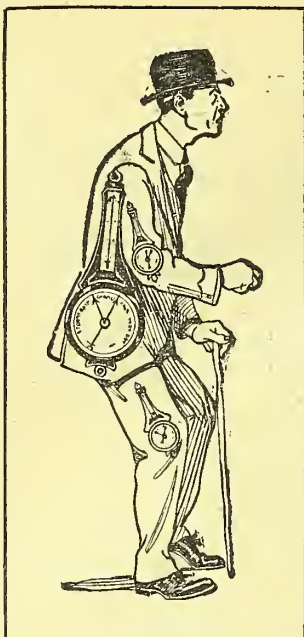
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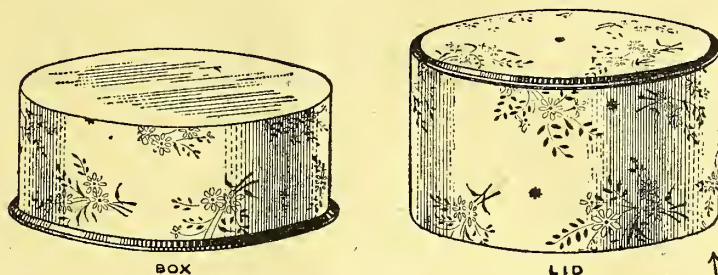
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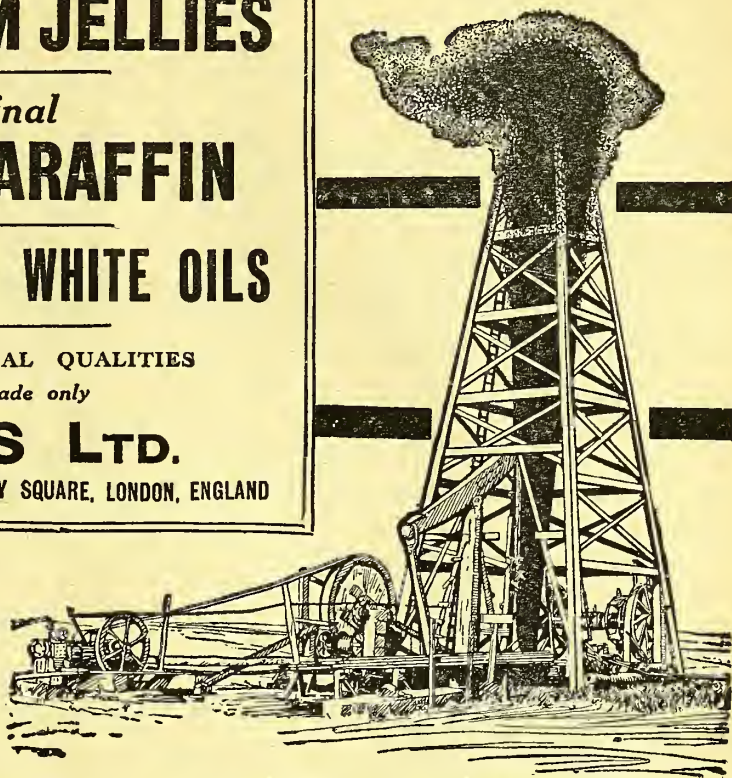
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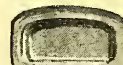
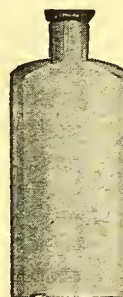
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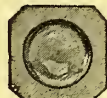
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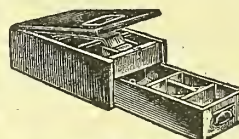
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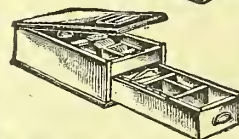
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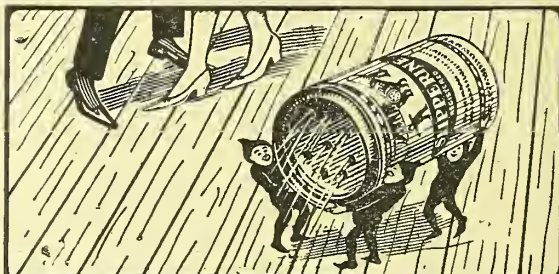


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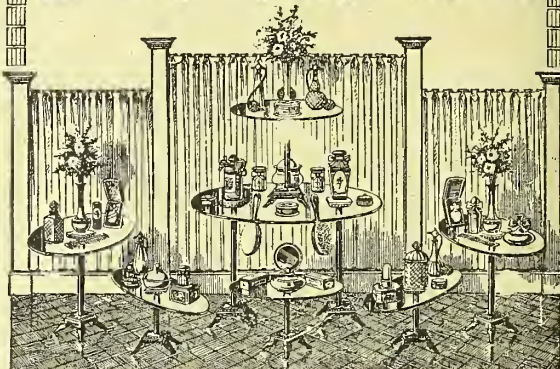
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For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6, on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

The above conditions apply only to the United Kingdom.

Carriage Paid.**EXAMPLE.**

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	....	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	....	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	....	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

Window Display Material Free and Carriage Paid.

WHOLESALE PRICES OF PHOSFERINE.Carriage Paid.

1/3 size	....
3/- "	....
5/- "	....
12/- "	....

Monthly Account.

12/- per doz. net.	
30/- "	"
48/6 "	"
114/- "	"

PROTECTED PRICES.

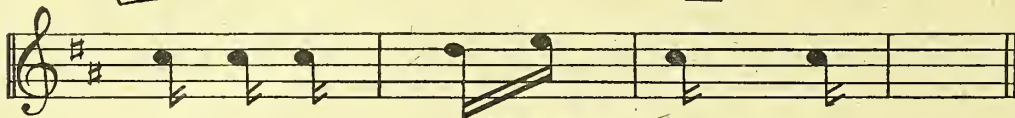
Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C.4, when a fresh supply will be sent and postage refunded.

LET'S ALL GO TO M-R'S HOUSE -



AND GET OUR GOODS ON TIME!

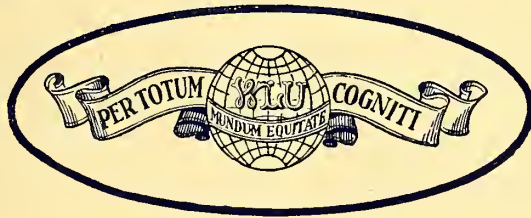


MAY, ROBERTS & CO., LTD.,

7-13, CLERKENWELL ROAD, E.C.1.

P. O. BOX 157

Also at DUBLIN, LIVERPOOL and PLYMOUTH.



WRIGHT'S LYSOL

Remains clear
on
dilution with
tap water.



Guaranteed
full
strength
50% Cresols.

In 4, 8, 16 and 32 oz. bottles and $\frac{1}{2}$ and 1 gallon tins.

An assorted order for £5 carriage paid with a
Window Display Bonus shows a profit of 50%
on the selling price P.A.T.A.

WRIGHT LAYMAN & UMMINEY LIMITED

SOUTHWARK

LONDON



A TOILET HINT

. . for Summer Days

Dubarry's Anti-Sunburn Cream



WOMEN and men who take a pride in their appearance are unable to enjoy the health-giving rays of the sun because of the havoc caused to the unprotected skin.



DUBARRY'S ANTI-SUNBURN CREAM

is something quite new in toilet luxuries.

It is scented with the finest Eau de Cologne, and may be described as having the effect of cream and powder combined.



DUBARRY'S ANTI-SUNBURN CREAM relieves all anxiety on this account. It protects the skin from sunburn and imparts a smooth, sun-resisting, peach-like appearance. It prevents freckles.

TO those who have already become sunburnt it will be found a boon in removing the redness, in relieving, cooling and healing.

IN HANDSOME DAFFODIL-
TINTED JARS - - -

Retail 1/9



